Valley Water

FY 2022-26

Capital Improvement Program

Santa Clara Valley Water District

Fiscal Years 2022-26
Capital Improvement Program

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June 30, 2021

Valley Water
Clean Water • Healthy Environment • Flood Protection

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Overview

Overview

OVERVIEW

The Santa Clara Valley Water District's (Valley Water) Fiscal Year (FY) 2022-26 Five-Year Capital Improvement Program (CIP) is a projection of Valley Water's capital funding for planned capital projects from FY 2021-22 through FY 2025-26. The purpose of the CIP is to document planned Valley Water projects to help integrate Valley Water work with the larger community by aligning Valley Water planning with other local agency planning efforts.

Valley Water's CIP is developed following the guidelines of Government Code (GC) § 65403 which governs the development and annual review of Capital Improvement Programs developed by special districts in the State of California. State law requires that the program be reviewed and updated annually. It also requires circulation of the document to all agencies having land use authority within Valley Water boundaries prior to adoption of the program. This document is intended to provide the information necessary to facilitate planning and construction of water-related infrastructure to meet the needs of Santa Clara County.

SANTA CLARA VALLEY WATER

Mission

The mission of Valley Water is to provide Silicon Valley safe, clean water for a healthy life, environment, and economy.

The CIP is prepared in accordance with the guidelines established by the Government Finance Officers Association (GFOA). Capital projects in this document are defined by both the accounting criteria for capital investment and the California Public Contract Code definition of public works. They exceed $50,000 in cost, have long- term life spans and are generally nonrecurring. They usually fall within one of the following six categories:

1. Acquisition of land for public purpose;
2. Construction of a significant facility, i.e. a flood protection facility, a water treatment facility, or a building;
3. Addition to or expansion of an existing facility;
4. Nonrecurring rehabilitation or major repair to all or part of a facility provided the total cost is more than $50,000;
5. Specific planning, engineering study, or design work related to an individual project which falls within the above categories;
6. Significant one-time investment in tangible goods of any nature, the benefit of which will accrue over several years. Examples include items such as large initial investments or improvements in technology or the purchase of a new telephone system.

The CIP includes several Small Capital Improvement Projects in the various funds. These projects will be ongoing and will be used to fund multiple small projects to undertake repairs, replacements, and minor modifications to existing water utility, watershed or campus facilities. Small Capital Improvements generally meet the following criteria:

1. Project cost is less than $2.5 million (unless otherwise approved by the Board);
2. Project can be completed within 2 fiscal years;
3. Rights-of-way acquisition is not required.

The proposed funding for the Water Supply Small Capital Improvement projects is anticipated to vary each year based on the work identified in the Water Utility Asset Management Plan. The Facility Management, Small Capital Improvements project is funded at a flat rate each year. Unspent funds in these projects will not carry forward from previous years.

There are some miscellaneous capital expenditures incurred by Valley Water that are not captured in the CIP. These capital expenditures include certain components of water purchases, indirect costs to manage and train staff that are fully engaged in capital work, and routine replacement of vehicles and large equipment.

Overview

ALIGNMENT WITH ENDS POLICIES

Valley Water plans, manages and carries out capital improvements to comply with the Ends Policies and Executive Limitations established by its Board of Directors. Under Valley Water's Policy Governance Model, Ends Policies describe the outcomes or results to be achieved by Valley Water staff. The Executive Limitations balance the Ends Policies and set limits on staff activities in fulfilling them.

Program plans, master plans and the asset management plan are developed to achieve the results established by the Ends Policies and to further define the goals and objectives of each Ends Policy. The Board either formally approves the plans or provides direction to staff, confirming the goals and objectives. These plans then become the basis for staff to propose and develop individual capital projects. Project ideas that are proposed by Operations staff must be vetted via a feasibility study and then validated to prepare a business case for proceeding with a capital investment. Some high-profile feasibility studies are included in the CIP. Alignment of the CIP with program or master plans provides a direct link to Ends Policies and ensures Valley Water's long-term capital investments are planned and executed according to the Board's priorities. Three Ends Policies directly drive program or master plans and the types of capital improvements described in the CIP:

- Ends Policy E-2 "There is a reliable, clean water supply for current and future generations."
- Ends Policy E-3 "There is a healthy and safe environment for residents, businesses and visitors, as well as for future generations."
  - E-3.1 "Provide natural flood protection for residents, businesses, and visitors"
  - E-3.2 "Reduce potential for flood damages"
- Ends Policy E-4 "There is water resources stewardship to protect and enhance watersheds and natural resources and to improve the quality of life in Santa Clara County."

(See flowchart "CIP Process Alignment with Ends Policies" on page I-5)

CIP PLANNING PROCESS

Valley Water conducts an annual planning process for its CIP. The purpose of the CIP Planning Process is to ensure the capital projects included in the CIP:

- Meet the Board's priorities and contribute to the objectives of Valley Water's various programs;
- Have identified funding for the duration of the projects; and
- Are coordinated with the local jurisdiction's General Plans.

The CIP Planning Process is carried out in accordance with the following Executive Limitations:

- Executive Limitation EL-4.3.1., "A BAO shall produce an annual Rolling Five-Year Capital Improvement Plan with the first year serving as the adopted capital budget and the remaining years in place as a projected capital funding plan."
- Executive Limitation EL-4.4.1., "A BAO shall demonstrate to the Board the planned expenditures for the identified and selected capital projects in the Rolling Five-Year Capital Improvement Plan are aligned with the Board's capital priorities."

The annual CIP Process is the responsibility of the CIP Group comprised of division managers, with the responsibility to initiate or implement capital projects. The detailed process is a documented ISO procedure. It includes the following key steps:

- Management review and approval, to ensure staff proposed projects are aligned with Board policies and approved program plans;
- Validation of projects to ensure there is a business case for doing the project and that a capital investment is the best solution;
- Review of all projects, including continuing and newly proposed projects, to ensure the projects in the CIP reflect Board priorities;
- Financial analysis, to determine the capacity of Valley Water's capital funding sources to fund the proposed capital projects;

- Review of impacts the completed capital project will have on the Operations and Maintenance (O&M) resources.
- Outreach to local jurisdictions with land use authority, within Santa Clara County, to coordinate Valley Water's Capital Improvement Program with their General Plans;
- Board review and direction at appropriate steps, to ensure the CIP reflects Board policies and priorities; and
- Board adoption of the CIP plan.

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a Draft CIP in February. The Draft CIP serves as a multi-year plan, and together with other long-term planning efforts of Valley Water, is the basis for the budget for the following fiscal year. This Draft CIP plan is also reviewed by local jurisdictions for consistency with their General Plans. While the Draft CIP is being reviewed by the cities and County, the budget is reviewed and finalized. The Board concludes the outreach on the Draft CIP with a public hearing. The first year of the CIP is reconciled with the budget; The Resolution to adopt the CIP and the budget are presented to the Board for approval in May.

Board Direction and CIP Outreach

The Board has many opportunities each year to provide direction on projects contained in the CIP. The CIP is developed in parallel with the budget and the water rates. It is presented to the Board for review and input on multiple occasions throughout the development process. Early in the validation process the list of newly proposed projects is presented to the Board so they can provide direction to staff, followed by Board workshops to review the Preliminary CIP to ensure that the document is developed in accordance with Board priorities. The direction received is used to develop the Draft CIP which is reviewed by the Board before staff is authorized to release the document for public review.
Following a public hearing, the Board approves the resolution to adopt the Final CIP in May.

The Board CIP Committee meets throughout the year to review and discuss information related to the development and implementation of the CIP and provide input to staff. The Committee provides recommendations on issues ranging from project implementation, to resource utilization and funding sources or distribution. The Committee's recommendations are presented to the Board for direction on incorporation into the CIP document or implementation by staff.

On January 12, 2021 the FY 2022-26 Preliminary CIP project list was reviewed and endorsed by the Board. There were no new projects added to the FY 2022-26 Preliminary CIP.

The following are highlights of changes from the previous year that have been approved as the basis for the FY 2022-26 CIP:

- To fully fund the Water Supply projects in the FY 2022-26 CIP, Valley Water has proposed increases in groundwater production charges of 9.1% in North County Zone W-2, 9.9% in South County Zone W-7, an increase of 4.5% for the modified South County Zone W-5 and 4.4% for South County Zone W-8 in FY 2021-22, after implementing a 0% increase in FY21 in light of the economic crisis spurred on by the COVID-19 Pandemic.
- The following significant project changes are driving the groundwater production charges:

  – The Pacheco Reservoir Expansion Project increased in cost by $1.174 billion.

  – The Anderson Dam Seismic Retrofit Project increased in cost by $102.9 million.

  – The Expedited Purified Water Program decreased in cost by $85.9 million.

  – The Penitencia Water Treatment Plant Residuals Management Project increased in cost by $34.5 million.

  – The 10-Year Pipeline Inspection and Rehabilitation Project increased in cost by $31.9 million.

  –The Rinconada Water Treatment Plant Reliability Improvement Project increased in cost by $19.3 million.

Overview

- The following are highlights of significant project changes under Flood Protection and Water Resources Stewardship:

  –The San Francisco Bay Shoreline Project EIA 11 increased in cost by $36.3 million.

  –The Lower Berryessa, Lower Penitencia Creek to Calaveras Blvd. Project increased in cost by $22.7 million.

  –The Upper Llagas Flood Protection Project Phase 2A (local funding only) increased in cost by $22 million.

  –The Almaden Lake Improvements Project increased in cost by $26 million.

  –The Sunnyvale East/West Channels Flood Protection Project increased in cost by $2 million.

- Five projects were completed or reprogrammed in the CIP. The Main and Madrone Pipeline Replacement Project, Stream Maintenance Program (SMP) Mitigation Project and E-Discovery Management System Project were all completed in FY21. The Westside Retailer Interties Project was closed and the Safe, Clean Water Program Salt Ponds Restoration Project was reprogrammed under an Operations Project.

Additional information regarding project changes can be found in each chapter overview.

On February 23, 2021, the Board of Directors reviewed and approved for release the Draft FY 2022-26 CIP. One new project was added to the FY 2022-26 Draft CIP: Bolsa Road Fish Passage Project.

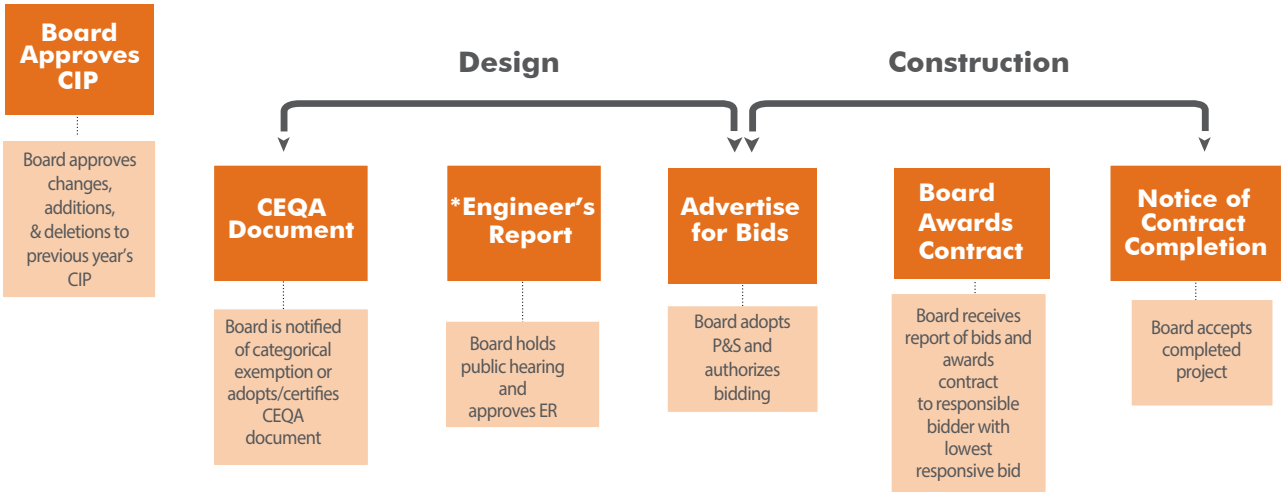
This project was originally part of the 2012 Safe, Clean Water Fish Passage Improvements Project. According to the 2012 Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water Program), this project was categorized under Project D4 – Fish Habitat and Passage Improvement and included fish passage improvement projects located at Evelyn Road, Singleton Road and Bolsa Road. The Evelyn Road Project was completed in 2015.

The Safe, Clean Water Program was renewed by the voters in November 2020.According to the renewed Safe, Clean Water Program, the Bolsa Road Project was moved to Project D6 – Restoration of Natural Creek Functions. While the Bolsa Road Project retains its fish passage benefits, it was moved to Project D6 because during the design phase, geomorphic features were identified that will restore stability and stream function. The project cost associated with the Singleton Road Project in the FY 2022-26 CIP will count towards the renewed Safe, Clean Water Program Project D4, key performance indicator 3, which is to use $8M on fish passage improvement projects by June 30, 2028.

Overview

Projects in the CIP are typically divided up into planning, design and construction phases. The Board may determine not to implement a project based on various considerations, such as financial constraints, environmental impacts, Operations and Maintenance, or community desire during a project's planning or design phases. The Board has various opportunities to provide direction and approval of capital projects as shown in the graphic below.

OPPORTUNITIES FOR BOARD DIRECTION ON CAPITAL PROJECTS



** Board approval of the Engineer's Report is required only on projects with zone funding.*

CIP PROCESS ALIGNMENT WITH ENDS POLICIES

Ends Policy E-2
There is a reliable, clean water supply for current and future generations.

→ **Program Plans or Master Plans**
- 1990 SCVWD Action Plan for reducing disinfection by-product (Board approved)
- Integrated Water Resource Plan (Board Work Studies)
- 1999 Producer-Wholesaler Agreement for Supply of Recycled Water between SCRWA and Valley Water (Board approved)
- 2004 Valley Water Asset Management Program Implementation Plan
- 2005 Urban Water Management Plan (Board approved)
- 2005 Dam Safety Plan
- 2005 Water Infrastructure Reliability Plan
- 2006 South County Water Recycling MasterPlan (Board approved)
- 2012 Safe, Clean Water Program (Board/Voter approved)
- 2012 Water Supply Infrastructure Master Plan (Board approved)
- 2013 Recycled Water Master Plan (City of Sunnyvale)
- 2014 South Bay Water Recycling Strategic Master Plan
- 2019 Water Supply Master Plan Update (Board Approved)

→ **FY 2022-2026 CIP**
- 31 Water Supply Capital Projects

Ends Policy E-3.1 & E-3.2
Provide natural flood protection for residents, businesses, and visitors. Reduce potential for flood damages.

→ **Program Plans or Master Plans**
- 1982, 1986, 1990 Benefit Assessment Program (Board approved)
- 2000 Clean, Safe Creek Program (Board/Voter approved)
- 2001 Stream Maintenance Program (Board approved) Annual Watershed Facility Inspection Program (for all watersheds)
- Feasibility Cost Sharing Agreements with the US Army Corps of Engineers
- 2012 Safe, Clean Water Program (Board/Voter approved)
- 2020 Measure S, Renewed Safe, Clean Water Program (Board/Voter approved)

→ **FY 2022-2026 CIP**
- 17 Flood Protection Capital Projects

Ends Policy E-4
There is water resources stewardship to protect and enhance watersheds and natural resources and to improve the quality of life in Santa Clara County.

→ **Program Plans or Master Plans**
- CEQA commitments
- Regulatory permitting commitments
- Enhancement Program per Clean Safe Creeks Program (Board/Voter approved)
- Enhancement opportunities determined appropriate by the Board
  - Fish and Aquatic Habitat Collaborative Effort
  - Natural Resource Damage Assessment
  - Other
- 2012 Safe, Clean Water Program (Board/Voter approved)
- 2020 Measure S, Renewed Safe, Clean Water Program (Board/Voter approved)

→ **FY 2022-2026 CIP**
- 12 Water Resources Stewardship Projects

Strategic Support

→ **Program Plans or Master Plans**
- 1990 Facilities Master Plan - Site Analysis Report (Board approved)
- 2005 Needs Assessment and Plan Feasibility Study
- 2012 Campus Master Plan (Board approved)

→ **FY 2022-2026 CIP**
- 2 Buildings and Grounds Capital Projects

Strategic Support

→ **Program Plans or Master Plans**
- 2001 Information System Master Plan
- 2003 Enterprise-wide Master Communication Plan
- 2012 Information Systems Master Plan

→ **FY 2022-2026 CIP**
- 6 Information Technology Capital Projects

NEW PROJECT VALIDATION, CIP REVIEW AND FINANCIAL ANALYSIS

Overview

FISCAL YEAR 2022-26 CIP SUMMARY

The recommended CIP for FY 2022-26 includes 68 priority projects to implement the goals and objectives of Valley Water's program plans and master plans. These projects are grouped into five types of improvements:

- *Water Supply Capital Improvements*
  31 projects contributing to Ends Policy E-2
- *Flood Protection Capital Improvements*
  17 projects contributing to Ends Policy E-3
- *Water Resources Stewardship Capital Improvements*
  12 projects contributing to Ends Policy E-4
- *Buildings and Grounds Capital Improvements*
  2 projects supporting Valley Water efforts to achieve the Ends Policies
- *Information Technology Capital Improvements*
  6 projects supporting Valley Water efforts to achieve the Ends Policies

Each of the 68 projects in the CIP has an identified funding source based on the type of improvement or function of the project.

The principal sources of revenue for Valley Water are: property taxes; a special parcel tax, which funds the Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water Program); and water production charges for use of groundwater, treated water, and surface water. These revenues are organized into eight funds. Seven of the eight funds have a specific purpose and only finance the operational and capital expenditures related to that purpose. In 2008 the Board decided to combine the individual watershed funds into a county-wide watershed and stream stewardship fund to send the message that the watershed activities are managed for the benefit of the county. This also streamlines most tracking and accounting activities for staff. Valley Water continues to receive a small amount of revenue from benefit assessments that were approved by voters in the 1980s and 1990s. These funds are dedicated to specific watersheds and the accounting practices to ensure that they are spent and accounted for appropriately have been kept in place. As shown in the chart below, five of the eight funds are used to finance the five types of capital improvements in the CIP.

Valley Water aggressively pursues external funding to supplement its principal revenue when practical. For a complete listing of grants and partnerships see Appendix A.

A number of Valley Water projects are receiving substantial State funding through grants:

- $25 million for Lower Silver Creek and Cunningham Flood Detention from DWR;
- $485 million for Pacheco Reservoir from the California Water Commission;
- $30 million for Upper Berryessa, Lower Berryessa, and Lower Penitencia from DWR; and
- $61.2 million for South San Francisco Bay Shoreline Phase 1 Project from the San Francisco Bay Restoration Authority.

VALLEY WATER PRIORITIES	Valley Water Funds				
Type of Improvement	Water Utility Enterprise Fund	Watershed Stream Stewardship Fund	General Fund	Safe, Clean Water Fund	Information Technology Fund
Water Supply	●			●	
Flood Protection		●		●	
Water Resources Stewardship	●	●		●	
Buildings and Grounds			●		
Information Technology	●				●

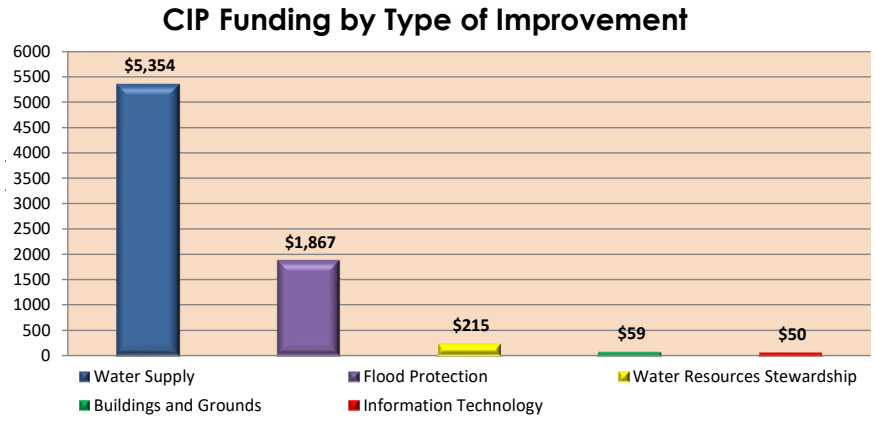
This chart identifies which types of improvement are associated with each of Valley Water's five capital funds.

Overview

The estimated total funding required to implement the 68 projects defined in the CIP is $8.021 billion. Valley Water has been and continues to be successful in leveraging funding for its capital projects through partnerships with federal, state, and local agencies. Of the $8.021 billion total funding, $1.283 billion is expected from Valley Water's various partners, such as the U.S. Army Corps of Engineers (USACE), and $6.738 billion from Valley Water. A list of projects that are funded cooperatively with Valley Water's partners is summarized in Appendix A. Funding from partners for the cooperative capital projects generally come in two ways:

- Funds that are made available by the partners when needed (cost-sharing agreements or in-kind services), or
- Funds that are reimbursed by the partners after Valley Water advances the needed funds.

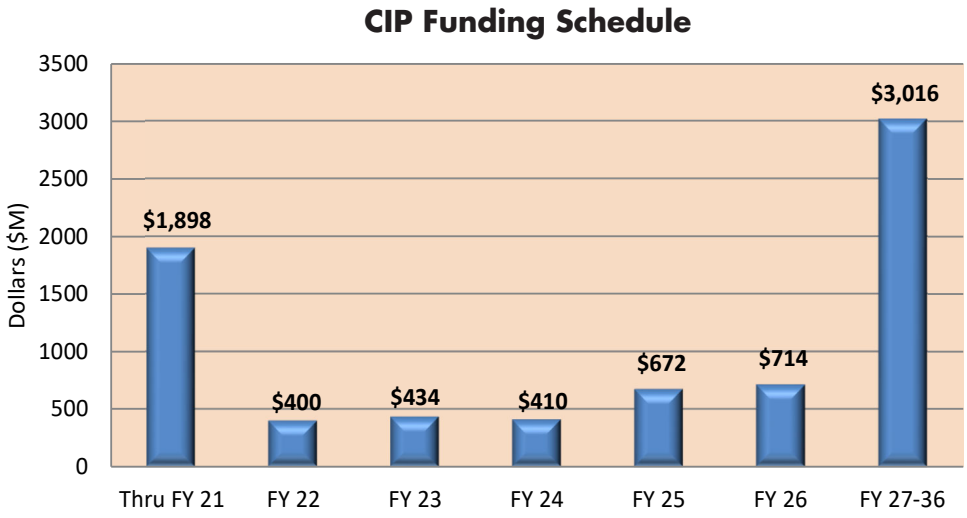
Of the $1.283 billion that is expected from Valley Water's partners, $807 million is advanced by Valley Water and reimbursed later. This $807 million is included in the CIP, and increases Valley Water's total funding requirement from $6.738 billion to $7.545 billion, to ensure that Valley Water has adequate funding to advance the reimbursement.



The chart above shows the distribution by type of improvement, of the $7.545 billion total CIP funding as planned in the FY 2022-26 CIP.

The chart above shows how the $7.545 billion to implement the 68 projects is allocated to each of the five types of improvements.

Of the $7.545 billion in total funding for the 68 projects identified in the CIP, the Board has appropriated $1.898 billion in prior years (through June 30, 2021, the end of fiscal year 2020-21). This year's CIP process identified additional funding needs of $5.646 billion to complete the projects in the CIP, with $400 million allocated in fiscal year 2021-22 and a total of $5.247 billion proposed for future years. The table shown on page I-8 breaks down the fiscal year total by the five types of improvement and by applicable funding sources.



The chart above shows how the $7.545 billion is distributed by fiscal year.

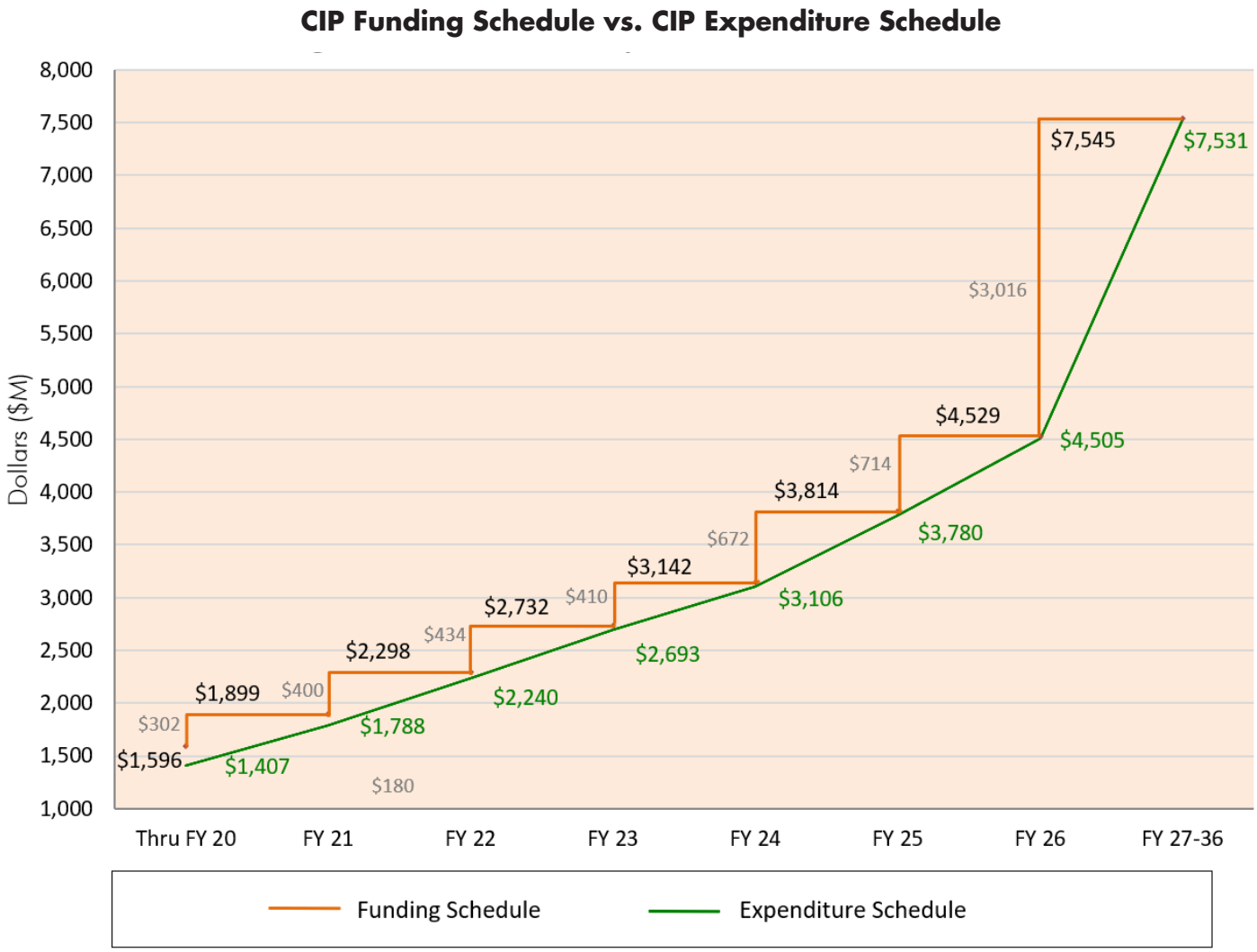
CIP Funding Schedule by Type of Improvement and Funding Sources ($K)

	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
WATER SUPPLY										
Water Utility Enterprise Fund	595,022	155,708	30,646	247,837	271,193	218,994	559,053	617,763	2,659,279	5,324,849
Safe, Clean Water and Natural Flood Protection Fund	19,059	634	4	313	46	1,632	2,492	2,576	2,852	29,604
Water Supply Total	614,081	156,342	30,650	248,150	271,239	220,626	561,545	620,339	2,662,131	5,354,453
FLOOD PROTECTION										
Watershed Stream Stewardship Fund	373,615	72,394	25,452	50,848	24,310	74,054	45,101	43,218	186,977	870,517
Safe, Clean Water and Natural Flood Protection Fund	539,074	63,658	50,867	75,689	93,667	70,650	50,222	26,868	76,655	996,483
Flood Protection Total	912,689	136,052	76,319	126,537	117,977	144,704	95,323	70,086	263,632	1,867,000
WATER RESOURCES STEWARDSHIP										
Water Utility Enterprise Fund	765	-	-	-	3,876	5,008	2,428	11,680	30,926	54,683
Watershed Stream Stewardship Fund	25,106	1,205	1	585	2,024	4,264	3,647	3,637	21,124	61,592
Safe, Clean Water and Natural Flood Protection Fund	18,034	1,882	1,301	17,383	29,107	20,865	1,775	1,281	7,977	98,304
Mitigation Total	43,905	3,087	1,302	17,968	35,007	30,137	7,850	16,598	60,027	214,579
BUILDINGS AND GROUNDS										
General Fund	20	3,016	1	6,000	6,173	10,544	6,385	6,492	20,000	58,630
Buildings and Grounds Total	20	3,016	1	6,000	6,173	10,544	6,385	6,492	20,000	58,630
INFORMATION TECHNOLOGY										
Water Utility Enterprise Fund	2,908	-	-	89	1,391	2,803	798	287	3,280	11,556
Information Technology Fund	22,654	3,335	1,818	1,089	2,284	1,248	405	504	6,779	38,298
Information Technology Total	25,562	3,335	1,818	1,178	3,675	4,051	1,203	791	10,059	49,854
TOTAL	1,596,257	301,832	110,090	399,833	434,071	410,062	672,306	714,306	3,015,849	7,544,516
CUMULATIVE TOTAL	1,596,257	1,898,089		2,297,922	2,731,993	3,142,055	3,814,361	4,528,667	7,544,516	

FY 2020-21 Funds to be reappropriated

Overview

As shown in the table, CIP Funding Schedule by Type of Improvement and Funding Sources (on the previous page): approximately $110 million of the already appropriated $1.899 billion is not spent and is reappropriated to FY 2021-22 for continued use in those same projects in amounts consistent with the project expenditure schedule for FY 2021-22. The following chart explains the relationship between the CIP funding schedule and expenditure schedule.



Water Supply

Water Supply Capital Improvements

WATER SUPPLY OVERVIEW

Valley Water manages and operates a complex and integrated water supply infrastructure, including storage, transmission, treatment, and recycled water facilities, to meet the Board's Ends Policy E–2, "There is a reliable, clean water supply for current and future generations."

Storage Facilities

- 10 surface reservoirs
- 393 acres of recharge ponds
- 76 miles of in-stream recharge
- Ground water basins

Transmission Facilities

- 142 miles of pipelines
- 3 pump stations

Treatment Facilities

- 3 treatment plants

Recycled Water Facilities

- Silicon Valley Advanced Water Purification Center
- South County Recycled Water Distribution System

Planning, design and construction of the above facilities took decades of effort. Beginning in the 1930s, reservoirs and recharge ponds were built to halt depletion of the ground water basin and subsidence, followed by pipelines and treatment plants to bring in state and federal water to meet growing water demands in the County.

In the early 1990s, Valley Water embarked on new and challenging capital improvements to upgrade its three drinking water treatment plants in order to meet new Environmental Protection Agency rules for improved water quality required by 1996 amendments to the Safe Drinking Water Act. Fifteen years of effort and capital funding brought the upgrades at Penitencia and Santa Teresa Water Treatment Plants to completion. Delivery of ozonated water produced at these two treatment plants began in 2006.

The Rinconada Water Treatment Plant (RWTP) was built in the late 1960s and is reaching the end of its useful life. A number of projects to upgrade and improve operations have been completed. The RWTP Reliability Improvement Project will add raw water ozonation, construct new flocculation and plate settler clarification, and dual media filtration facilities. It will also increase plant capacity from 80 to 100 million gallons per day. Construction of this Project began in the summer of 2015. After completion of Phase 1 and 2 in the summer of 2020, work on Phases 3 through 6 will commence following an evaluation of the best approach.

With a significant portion of the Water Supply infrastructure approaching 50 to 60 years of age, maintaining and upgrading the existing infrastructure to ensure each facility functions as intended for its useful life became the focus of the Water Supply CIP in recent years.

Valley Water owns and operates ten dams. While these dams provide water supply, flood management, recreation, and environmental flow benefits, there are consequences and costs for dam ownership. Knowledge of seismic stability design and construction was very rudimentary during the design and construction of Valley Water dams in the 1930s and 50s. Both liquefaction of dam embankments and foundations and embankment stability must be addressed for seismic stability. Several of Valley Water's reservoirs have had operating restrictions imposed by the Department of Safety of Dams (DSOD) while an engineering analysis of how Valley Water's dams would perform under a major seismic event is completed and appropriate corrective actions are implemented.

On November 26, 2010, the Board was informed that Anderson Dam will require a seismic retrofit and the operating restriction was increased to 45 feet below the crest of the dam. Since this briefing, a consultant has determined that a magnitude 7.2 Maximum Credible Earthquake on nearby Calaveras Fault could cause a deformation (slumping) of the dam crest by 25 feet. The Anderson Dam Seismic Retrofit Project was initiated in January 2011. While work on the project was underway, Valley Water received a directive on February 20, 2020 from the Federal Energy Regulatory

Commission to implement interim risk reduction measures, including the Anderson Dam Tunnel Project to construct a diversion to augment the existing outlet.

Valley Water completed a seismic stability evaluation of Almaden, Calero, and Guadalupe Dams in late 2010. Almaden Dam was found to be seismically stable; however both Calero and Guadalupe Dams will require seismic retrofitting to meet DSOD performance criteria. A project was initiated in fiscal year 2013 to address the Calero and Guadalupe Dams retrofit needs. A separate capital project to address outlet and spillway improvements at Almaden Dam is continuing. Seismic stability evaluations were conducted at Lenihan and Stevens Creek Dams. Both were found to be seismically stable.

In April 2017, the Governor of California ordered detailed evaluations of large spillway structures at all high-hazard dams. Spillway evaluations are required on 9 of Valley Water's 10 dams. The spillway evaluation for 7 dams have been incorporated into existing projects and a separate contract for the spillway evaluation of the Lenihan and Stevens Creek dams has been formed.

Valley Water is partnering with Pacheco Pass Water District and San Benito County Water District for the Pacheco Reservoir Expansion Project. This Project will encompass the acquisition and expansion of this reservoir from 6,000 AF to 140,000 AF and will provide water quality benefits, operational flexibility, emergency storage, flood protection, and ecosystem benefits. On July 24, 2018, the California Water Commission awarded $484.55 million to support the project, including an early funding award of $24.2 million.

The key driver for Water Supply projects is the Water Supply Master Plan, which includes three strategies to ensure sustainability: secure water supply; expand water supply through water conservation, stormwater capture and potable reuse projects; and optimize existing infrastructure.

Major Capital Improvements Identified in the CIP:

Storage:

- Almaden Dam Improvements
- Anderson Dam Seismic Retrofit
- Calero Dam Seismic Retrofit
- Guadalupe Dam Seismic Retrofit
- Pacheco Reservoir Expansion
- Dam Seismic Stability Evaluation
- Coyote Pumping Plant ASD Replacement
- Coyote Warehouse
- Small Capital Improvements, San Felipe Reaches 1-3

Transmission:

- 10-Year Pipeline Rehabilitation
- FAHCE Implementation
- Vasona Pumping Station Upgrade
- Almaden Valley Pipeline Replacement
- Distribution System Implementation Project
- IRP2 Additional Line Valves (A3)
- Pacheco/Santa Clara Conduit Right of Way Acquisition
- SCADA Implementation Project
- Small Capital Improvements, Raw Water Transmission
- Small Capital Improvements, Treated Water Transmission
- Treated Water Isolation Valves

Water Treatment Plants (WTP):

- Penitencia WTP Residuals Management
- Rinconada WTP Residuals Remediation
- Rinconada WTP Reliability Improvement
- Rinconada WTP Treated Water Valves Upgrade
- Santa Teresa WTP Filter Media Replacement
- WTP Electrical Improvement
- Small Capital Improvements, Water Treatment
- WTP Implementation Project

Recycled Water:

- Expedited Purified Water Program
- South County Recycled Water Pipeline
- Land Rights - South County Recycled Water Pipeline

CIP PLANNING PROCESS AND FINANCIAL ANALYSIS

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a Draft CIP in February.

The Board then authorizes release of the Draft CIP to the public and local municipalities for review, conducts a public hearing, and approves the resolution to adopt the Final CIP in May.

Based on the feedback from the FY 2006-07 CIP and Board direction, a concerted effort was made to develop a multi-year water charge structure that would support the priority work of the water utility business. Staff analyzed both immediate requirements and anticipated future needs to support operations and the continued appropriations for capital investment needed to maintain infrastructure and comply with water quality regulations. Each year staff reviews Board priorities, the financial needs of the Water Utility Enterprise Fund, current political and economic factors and updates the multi-year structure. The rate structure for the first year is recommended to the Board for adoption during the annual rate setting process.

While Valley Water has one Water Utility fund, Valley Water has multiple zones of benefit for the purposes of setting groundwater production charges. The North County Zone is very different from the South County Zone in that the water infrastructure is substantially separate and distinct with an entirely different cost of providing service. For example the north zone overlays the Santa Clara groundwater subbasin and is much more densely populated, requiring a large amount of imported water from outside the county to provide a reliable water supply. To receive, filter and distribute the imported water, Valley Water chose to build three water treatment plants and a network of raw water and treated water distribution pipelines many decades ago. Conversely, the South County overlays the Coyote Valley (southern Santa Clara subbasin) and the Llagas groundwater subbasins and is more sparsely populated. South County communities rely almost entirely on groundwater, with small amounts of raw surface water and recycled water. A small amount of recycled water is served in the Gilroy area. No treated water is served in South County, so water utility infrastructure primarily supports the storage and distribution of local and imported surface water for groundwater recharge.

The financial analysis of the Water Utility Enterprise Fund, the funding source for the water supply capital improvements, is conducted in conjunction with the groundwater production charge process.

After reviewing a number of scenarios, on May 11, 2021, Valley Water's Board of Directors approved and adopted staff-proposed changes in the municipal and industrial (M&I) groundwater production charges with increases of 9.1% in North County Zone W-2, 9.9% in South County Zone W-7, 4.5% for the modified South County Zone W-5 and 4.4% for South County Zone W-8 in FY 2021-22 after implementing a 0% increase in FY 2021 in light of the economic crisis spurred on by the COVID-19 pandemic.

Significant Project Updates From Prior Year

Listed below are the changes to projects from the FY 2021-25 Adopted CIP:

- The Pacheco Reservoir Expansion Project increased in cost by $1.174 billion due to findings by geotechnical investigations, leading to more extensive work required than previously presumed and increased construction phase cost estimates.

- The Anderson Dam Seismic Retrofit Project increased in cost by $102.9 million primarily due to the new Federal Energy Regulatory Commission (FERC) projects now included in the Anderson Dam Project scope and schedule.

- The Expedited Purified Water Program decreased in cost by $85.9 million due to revised project delivery schedule. The construction schedule will begin two years sooner than previously planned, the design phase decreased by two years and the construction duration period reduced by half. This program is planned to be delivered via a Public-Private Partnership (P3).

- The Penitencia Water Treatment Plant Residuals Management Project increased in cost by $34.5 million due to revised scope and increased construction cost estimates based on recent projects with similar scope and complexity.

Water Supply Capital Improvements

- The 10-Year Pipeline Inspection and Rehabilitation Project increased in cost by $31.9 million due to the scope of individual projects within the program have expanded to incorporate more extensive repairs, upgrades, and replacements.

- The Rinconada Water Treatment Plant Reliability Improvement Project increased in cost by $19.3 million due to new projections for additional design and the construction of Phases 3-6 after the closeout of Phases 1 and 2 construction.

- The Rinconada Water Treatment Plant Residuals Remediation Project increased in cost by $6.9 million due to the Design phase cost has been increased to include legal fees and the cost of a temporary mobile centrifuge rental through project completion. The construction phase schedule has been updated to reflect the estimated date of the Notice to Proceed and the most recently received 90% design construction schedule.

- The Small Capital Improvements, San Felipe Reaches 1-3 Project increased in cost by $35.8 million due to the addition of the replacement of large pumps and motors at the Pacheco Pumping Plant beginning in FY28 as they are reaching the end of their useful life.

The majority of capital projects included in the 5-Year CIP are related to asset management, which replaces aging equipment and facilities, infrastructure reliability, which protects the county's baseline water supply, or Advanced Purified Water, which produces a drought-resilient source of water.

Valley Water is currently engaged in several critical studies related to understanding the conditions of various water supply facilities and meeting future water supply needs of the county. This effort included updating the Water Supply Master Plan, which was approved by the Board on November 20, 2019.

Water Supply Capital Improvements

The following table is a project funding schedule for water supply capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2020-21.

Water Supply Capital Improvements

Project Number	PROJECT NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
	STORAGE FACILITY										
91854001	Almaden Dam Improvements	14,604	168	346	-	-	-	104	125	51,011	66,012
91864005	Anderson Dam Seismic Retrofit (C1)	62,940	36,135	-	126,937	77,626	70,155	52,340	47,088	174,169	647,390
91084020s	Calero and Guadalupe Dams Seismic Retrofits	32,015	2,900	1,840	1,970	585	114	13,163	26,249	184,470	261,466
91234002	Coyote Pumping Plant ASD Replacement	2,260	2,116	1,999	-	6,341	4,123	646	81	-	15,567
91234011	Coyote Warehouse	9,360	284	-	73	66	-	-	-	-	9,783
91084019	Dam Seismic Stability Evaluation	22,236	352	353	65	437	456	5,903	436	1,430	31,315
91954002	Pacheco Reservoir Expansion Project (A1)	52,366	27,911	128	30,548	45,592	48,627	235,806	304,608	1,774,466	2,519,924
91214010s	Small Capital Improvements, San Felipe Reach 1-3	n/a	5,724	-	4,517	1,565	153	1,041	112	68,491	81,603
	TRANSMISSION FACILITY										
95084002	10-Year Pipeline Rehabilitation (FY18-FY27)	55,239	16,995	4,636	16,243	25,134	11,457	12,171	1,756	2,110	141,105
92304001	Almaden Valley Pipeline Replacement Project	-	668	-	828	1,253	2,465	1,893	2,396	80,527	90,030
95044001	Distribution Systems Implementation Project	-	2,383	383	2,858	2,668	-	-	-	-	7,909
92C40357	FAHCE Implementation	-	-	-	-	4,739	4,379	14,691	14,690	106,609	145,108
26764001	IRP2 Additional Line Valves (A3)	1,489	634	2	313	46	1,632	2,492	2,576	2,852	12,034
26564001	Main & Madrone Pipelines Restoration (A1)	17,570	-	2	-	-	-	-	-	-	17,570
92144001	Pacheco/Santa Clara Conduit Right of Way Acquisition	2,827	507	5	1,657	311	-	-	-	-	5,302
95044002	SCADA Implementation Project	-	1,365	-	2,384	2,731	-	-	-	-	6,480
92764009	Small Capital Improvements, Raw Water Transmission	n/a	82	-	169	17	382	6,722	272	4,248	11,892
94764006	Small Capital Improvements, Treated Water Transmission	n/a	-	-	36	39	30	119	52	255	531
94084007	Treated Water Isolation Valves	1,271	-	1,245	-	-	2,331	-	2,439	2,642	8,683
92264001	Vasona Pump Station Upgrade	1,905	1,218	-	717	19,159	545	200	-	-	23,744
94084008	Westside Retailer Interties	147	-	75	-	-	-	-	-	-	147
	TREATMENT FACILITY										
93234044	PWTP Residuals Management	-	683	-	1,593	1,941	1,625	10,096	18,782	9,572	44,292
93294051s	RWTP Residuals Remediation	46,205	10,278	17,061	5,353	8,791	633	-	-	-	71,260
93294057	RWTP Reliability Improvement	220,363	31,506	221	20,620	22,455	24,570	22,700	17,660	-	359,874
93294056	RWTP Treated Water Valves Upgrade	8,624	-	5	6	-	-	-	-	-	8,630
93764004	Small Capital Improvements, Water Treatment	-	10,285	-	7,503	1,415	5,382	3,170	3,370	23,152	54,277
93284013	STWTP Filter Media Replacement Project	203	445	1	2,812	4,912	1,728	-	-	-	10,100
93084004	Water Treatment Plant Electrical Improvement Project	203	446	-	879	2,488	5,851	2,049	-	-	11,916
93044001	WTP Implementation Project	-	1,394	-	3,276	3,468	-	-	-	-	8,138
	RECYCLED WATER FACILITY										
91304001s	Expedited Purified Water Program (EPWP)	25,697	1,412	1,786	1,140	29,151	30,382	176,239	177,647	176,127	617,795
91094001	Land Rights - South County Recycled Water PL	-	203	203	345	3,407	3,606	-	-	-	7,561
91094007s	South County Recycled Water Pipeline	36,557	248	359	15,308	4,902	-	-	-	-	57,015
	TOTAL	614,081	156,342	30,650	248,150	271,239	220,626	561,545	620,339	2,662,131	5,354,453

FY 2020-21 Funds to be reappropriated

Water Supply Capital Improvements

The following table shows funding requirements from each funding source for water supply capital.

Water Supply - Funding Source ($K)

Fund Number	FUND NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
61	Water Utility Enterprise Fund	595,022	155,708	30,646	247,837	271,193	218,994	559,053	617,763	2,659,279	5,324,849
26	Safe, Clean Water and Natural Flood Protection Fund	19,059	634	4	313	46	1,632	2,492	2,576	2,852	29,604
	TOTAL	614,081	156,342	30,650	248,150	271,239	220,626	561,545	620,339	2,662,131	5,354,453

FY 2020-21 Funds to be reappropriated

Storage Facilities

Storage Facilities

- 10 Surface Reservoirs
- 393 Acres of Recharge Ponds
- 76 Miles of In-stream Recharge
- 8 Capital Projects
- Groundwater Basins

Project	**Almaden Dam Improvements**
Program	Water Supply – Storage
Project No.	91854001
Contact	Christopher Hakes chakes@valleywater.org

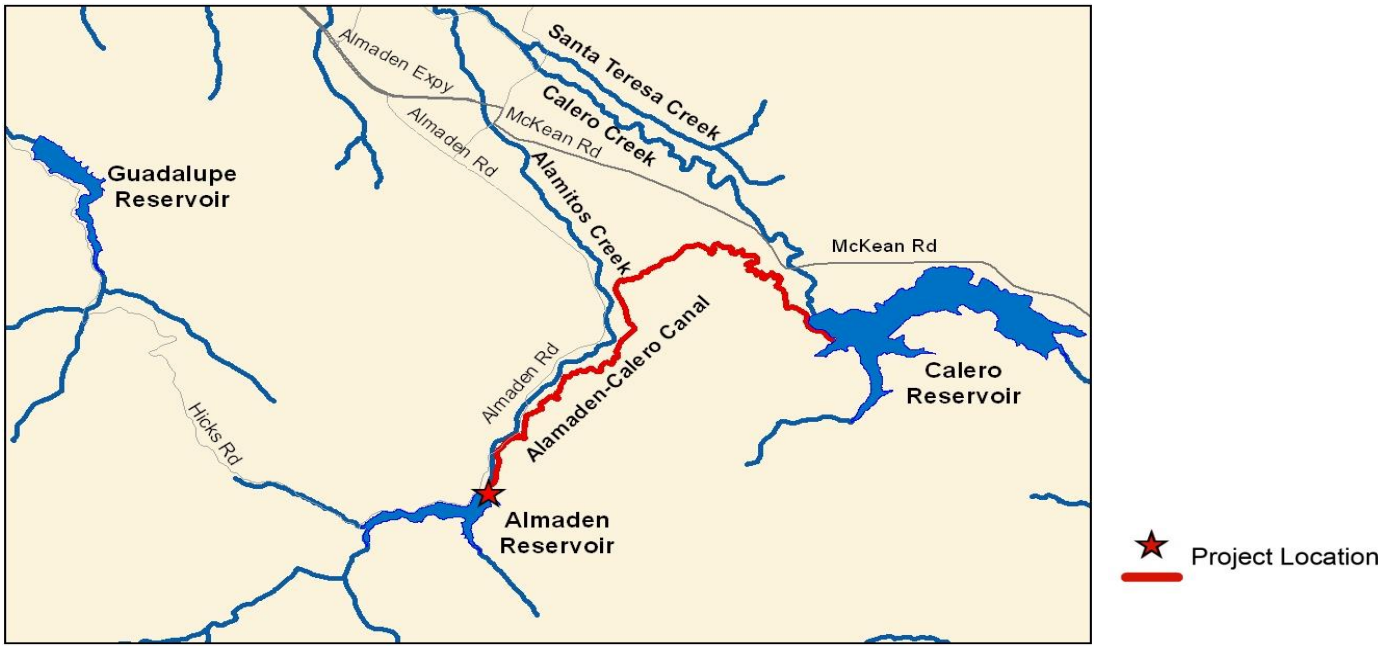
Aerial view of Almaden Dam and spillway, and part of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Almaden Dam outlet works to accomplish the following objectives:

- Modify or construct a new intake structure, capable of releasing 246 cubic feet-per-second of water without flushing of sediments through the outlet works.
- Correct existing problems with the outlet energy dissipation structure, piping and valves.
- Restore operational capacity to the Almaden-Calero Canal and stabilize and improve maintenance access.

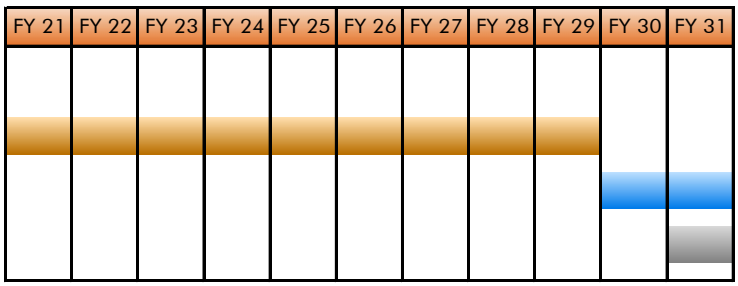
PROJECT LOCATION



SCHEDULE & STATUS

July 1995 to June 2031

Phase	Cost
Plan	5,099
Design	5,237
Construct	37,633
Closeout	4
	53,613



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
91854001-Almaden Dam Improvements	13,964	462	105	100	100	102	100	38,680	53,613
with inflation	13,964	462	105	109	114	122	125	51,011	66,011

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
91854001-Almaden Dam Improvements	14,604	168	346	0	0	0	104	125	51,011	66,011

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	66,011
Other Funding Source	0
Total	66,011

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately $2,000 per year, beginning in FY31. Manually flushing the control valves during the winter months to remove silt will no longer be required.

USEFUL LIFE: 50+ Years

Project	**Anderson Dam Seismic Retrofit (C1)**
Program	Water Supply – Storage
Project No.	91864005
Contact	Christopher Hakes chakes@valleywater.org

Aerial view of Anderson Dam, spillway, and part of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs seismic retrofit or replacement of outlet works at Anderson Dam, pending completion of a field investigation that will determine whether the Coyote Fault is seismically active. Seismic stability improvements will accomplish the following objectives:

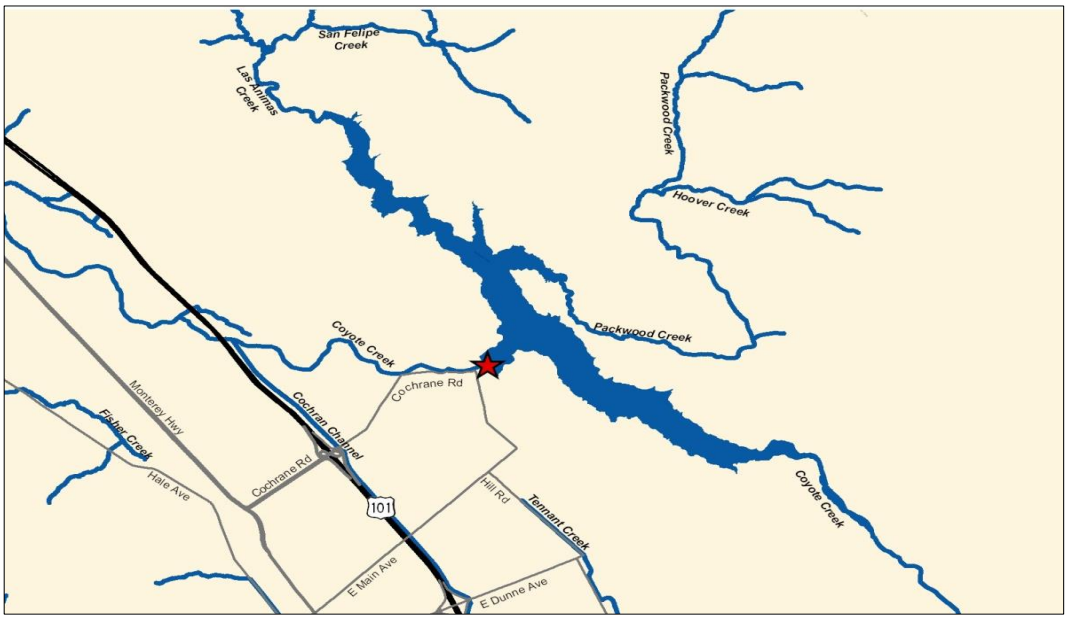
- Resolve seismic stability deficiencies to ensure public safety.
- Restore lost reservoir storage capacity resulting from the operational restriction issued by Division of Safety of Dams (DSOD).
- Resolve the DSOD/FERC (Federal Energy Regulatory Commission) requirements in a timely manner.

In accordance with Federal regulations, this project includes the construction of subprojects as part of the Federal Energy Regulatory Commission Order Compliance Project (FOCP). These are:

- FOCP Anderson Dam Tunnel;
- FOCP Coyote Percolation Dam Replacement;
- FOCP Cross Valley Pipeline Extension;
- FOCP Coyote Creek Flood Management Measure; and
- FOCP Coyote Creek Stream Augmentation Fish Protection Measure.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project C1. For a full description of the SCW benefits and KPI's, please visit www.valleywater.org.

PROJECT LOCATION

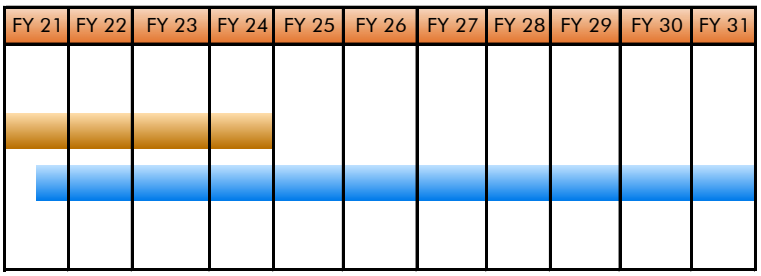


★ Project Location

SCHEDULE & STATUS

January 2011 to June 2032

Phase	Cost
Plan	21,380
Design	88,103
Construct	496,220
Closeout	1,100
	616,930



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
91864005-Anderson Dam Seismic Retrofit	63,056	35,869	126,937	71,910	66,690	49,130	43,858	159,480	616,930
with inflation	63,056	36,019	126,937	77,626	70,155	52,340	47,088	174,170	647,392

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
91864005-Anderson Dam Seismic Retrofit	62,940	36,135	0	126,937	77,626	70,155	52,340	47,088	174,170	647,392

Adjusted Budget includes adopted budget plus any planned budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	579,339
SCVWD Safe Clean Water Fund	68,053
Other Funding Sources	0
Total	647,392

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50+ Years

Project Calero and Guadalupe Dams Seismic Retrofits
Program Water Supply - Storage
Project No. 91084020 & 91894002 **Contact** Christopher Hakes chakes@valleywater.org

Aerial view of the Calero Dam and reservoir

Areial view of the Guadalupe Dam, spillway, and part of the reservoir

PROJECT DESCRIPTION

Project 91084020: This project performs planning (engineering and environmental) for the Calero and Guadalupe Dams.
Project 91894002: This project designs and constructs improvements to Guadalupe Dam.
The projects will accomplish the following objectives:

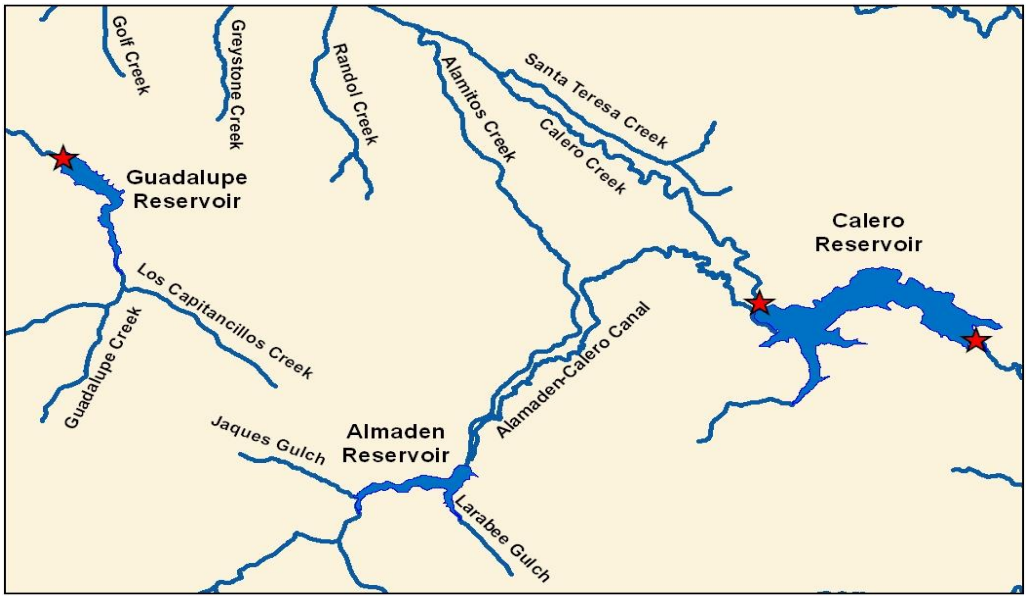
Calero Dam

- Stabilize the embankment to withstand a Maximum Credible Earthquake (MCE).
- Modify or replace the outlet works if determined to be inadequate.
- Modify the spillway or increase the freeboard of the dam for safe passage of the Probable Maximum Flood (PMF).
- Provide modifications that do not preclude potential future expansion of dam and reservoir to provide additional reservoir storage.
- Remove or relocate the Bailey Ranch structures and breach Fellow's Dike.

Guadalupe Dam

- Stabilize the embankment to withstand a MCE.
- Implement improvements as necessary for the dam system to safely pass the PMF.
- Ensure that the outlet works and hydraulic control system meet the Division of Safety of Dams requirements.
- Relocate the intake structure out of the upstream berm in a timely manner.
- Incorporate other measures to address seismic and other dam safety deficiencies that are identified through the Project delivery process.

PROJECT LOCATION

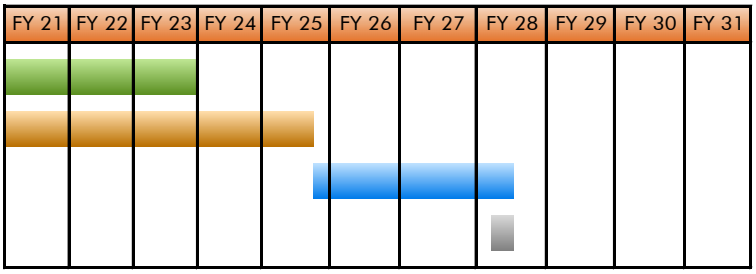


★ Project Location

SCHEDULE & STATUS

July 2012 to January 2028

Phase	Cost
Plan	11,354
Design	9,091
Construct	63,257
Closeout	72
	87,795



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY20**	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**Future**	
91084020 - Calero and Guadalupe Dams Seismic Retrofits-Planning	9,094	1,946	1,970	450	0	0	0	0	13,460
with inflation	9,094	1,946	1,970	491	0	0	0	0	13,501
91894002 - Guadalupe Dam Seismic Retrofit-Design & Construct	9,600	241	872	100	100	11,600	23,000	28,822	74,335
with inflation	9,600	241	872	109	114	13,164	26,251	33,166	83,517
TOTAL	**18,694**	**2,187**	**2,842**	**550**	**100**	**11,600**	**23,000**	**28,822**	**87,795**
with inflation	**18,694**	**2,187**	**2,842**	**601**	**114**	**13,164**	**26,251**	**33,166**	**97,019**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY20**	**FY21**		**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**Future**	
91084020 - Calero and Guadalupe Dams Seismic Retrofits-Planning	9,476	1,564	0	1,970	491	0	0	0	0	13,501
91894002 - Guadalupe Dam Seismic Retrofit-Design & Construct	10,257	471	887	0	94	114	13,164	26,251	33,166	83,517
TOTAL	**19,733**	**2,035**	**887**	**1,970**	**586**	**114**	**13,164**	**26,251**	**33,166**	**97,019**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	97,019
Other Funding Source	0
Total	**97,019**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: 50+ Years

Project	**Calero Dam Seismic Retrofit-Design & Construction**
Program	Water Supply – Storage
Project No.	91874004
Contact	Christopher Hakes chakes@valleywater.org

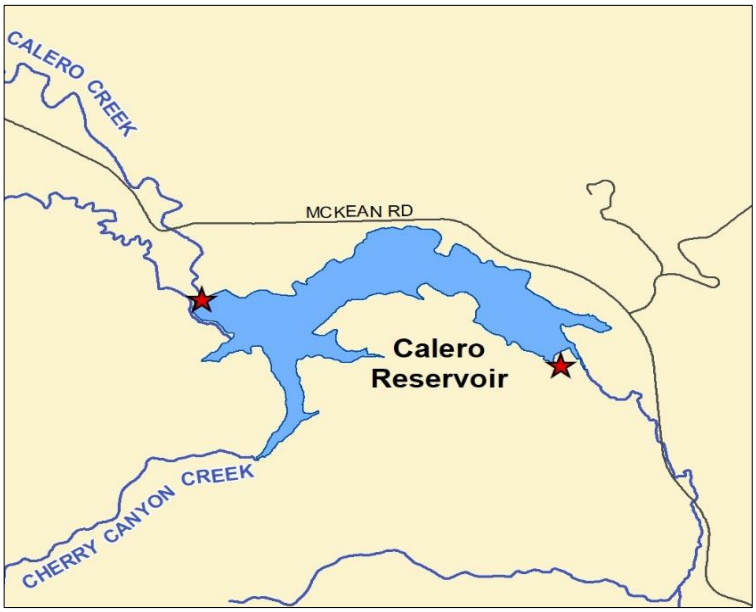
Aerial view of the Calero Dam and reservoir

PROJECT DESCRIPTION

This project designs and constructs improvements to the Calero Dam to accomplish the following objectives:

- Stabilize the embankment to withstand a Maximum Credible Earthquake.
- Modify or replace the outlet works if determined to be inadequate.
- Modify the spillway or increase the freeboard of the dam for safe passage of the Probable Maximum Flood.
- Provide modifications that do not preclude potential future expansion of dam and reservoir to provide additional reservoir storage.
- Remove or relocate the Bailey Ranch structures and breach Fellow's Dike.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

January 2015 to June 2035

Phase	Cost
Plan	8
Design	13,186
Construct	103,502
Closeout	8
	118,581

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
91874004 - Calero Dam Seismic Retrofit-Design & Construct	11,894	300	209	100	80	30	30	105,938	118,581
with inflation	11,894	300	209	109	91	36	37	151,777	164,453

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
91874004 - Calero Dam Seismic Retrofit-Design & Construct	12,282	865	953	0	0	0	0	0	151,306	164,453

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	164,453
Other Funding Source	0
Total	164,453

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the design phase.

USEFUL LIFE: 50+ Years

Project	**Coyote Pumping Plant ASD Replacement**
Program	Water Supply – Storage
Project No.	91234002
Contact	Heath McMahon hmcmahon@valleywater.org

ASD motors at the Coyote Pumping Plant

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Coyote Pumping Plant Adjustable Speed Drives (ASD) to accomplish the following objectives:

- Replace existing outdated and unsupported ASDs with the latest technology.
- Modify/convert existing six wound rotor motors to be compatible with new stator fed ASD.
- Upgrade the heating, ventilation and air conditioning system to support the additional cooling requirements.
- Modify/upgrade supervisory control and data acquisition control and instrumentation systems, and control strategy to support the new ASDs.
- Replace two main medium voltage circuit breakers and one medium voltage tie circuit breaker (switch) which are at the end of service life.
- Replace motor control equipment line-up with new switchgears.
- Installation of a pump motor vibration and a power monitoring system and motor control center.

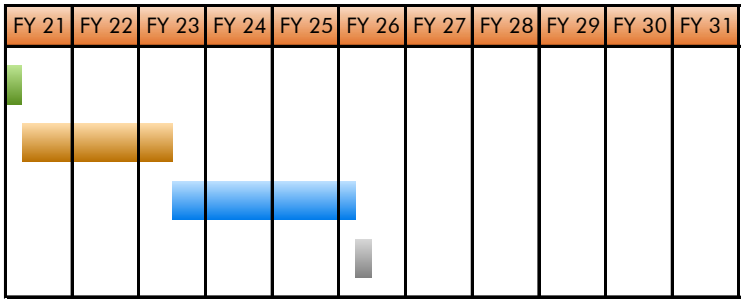
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2017 to November 2025

Phase	Cost
Plan	685
Design	920
Construct	12,073
Closeout	65
	14,665



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
91234002-Coyote Pumping Plant ASD Replacement	1,550	827	1,608	6,310	3,735	570	65	0	14,665
with inflation	1,550	827	1,608	6,732	4,123	646	81	0	15,567

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
91234002-Coyote Pumping Plant ASD Replacement	2,260	2,116	1,999	0	6,341	4,123	646	81	0	15,567

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	15,567
Other Funding Sources	0
Total	15,567

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately $60,000 per year beginning in FY26.

USEFUL LIFE: Not Available

Project	**Coyote Warehouse**
Program	Water Supply - Storage
Project No.	91234011
Contact	Heath McMahon hmcmahon@valleywater.org

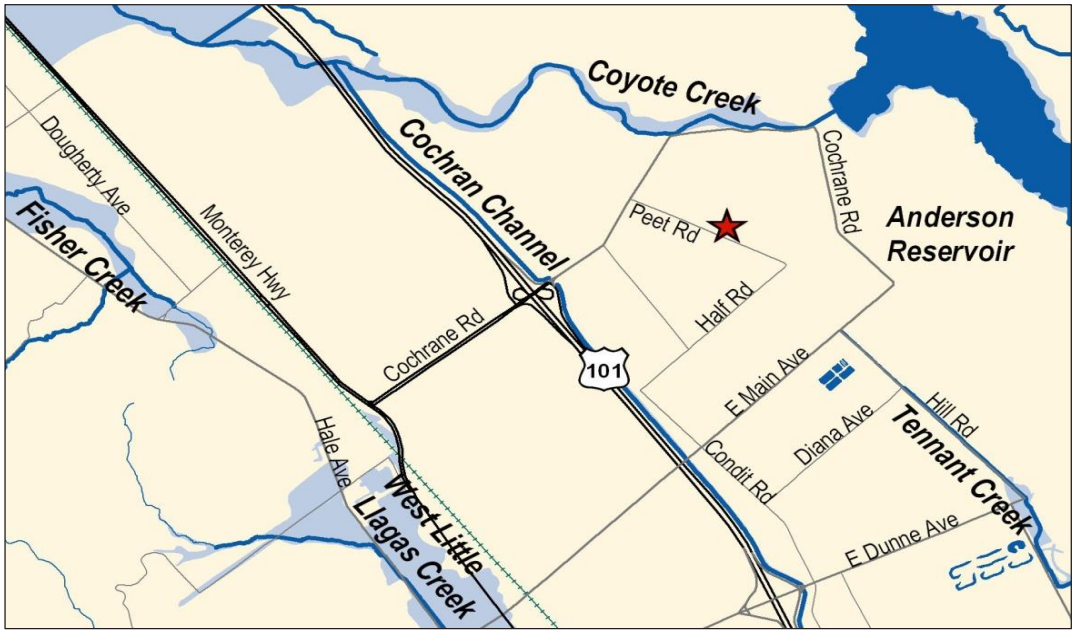
Newly constructed warehouse will be used to secure equipment and spare parts

PROJECT DESCRIPTION

This project plans, designs, and constructs the Coyote Warehouse to accomplish the following objectives:

- Provide suitable storage space for pipeline spare parts and appurtenances, and to protect such materials from weather.
- Improve Valley Water's staff efficiency and effectiveness in pipeline maintance work.

PROJECT LOCATION

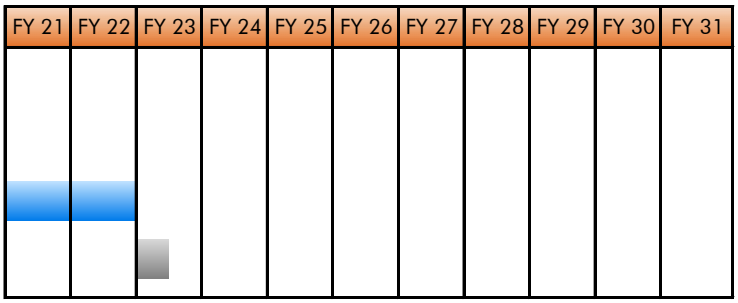


★ Project Location

SCHEDULE & STATUS

July 2015 to December 2022

Phase	Cost
Plan	157
Design	781
Construct	6,744
Closeout	60
	9,777



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
91234011-Coyote Warehouse	9,411	233	73	60	0	0	0	0	9,777
with inflation	9,411	233	73	66	0	0	0	0	9,783

Actuals include prroject expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
91234011-Coyote Warehouse	9,360	284	0	73	66	0	0	0	0	9,783

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	9,783
Other Funding Sources	0
Total	9,783

OPERATING COST IMPACTS

Operating cost impacts will be determined upon completion of the construction phase.

USEFUL LIFE: 50 years

Project	**Dam Seismic Stability Evaluations**
Program	Water Supply – Storage
Project No.	91084019
Contact	Christopher Hakes chakes@valleywater.org

Field exploration for seismic stability evaluations

PROJECT DESCRIPTION

This project conducts preliminary planning (seismic stability evaluation) for nine dams to accomplish the following objectives:

- Address seismic stability issues.
- Provide for public safety.
- Ensure operational availability of reservoirs.
- Address protection of the assets.

This project funds preliminary planning activities to determine the need for seismic stability improvements for eight of the nine dams identified on the map below. The evaluations for Almaden, Calero, Guadalupe, Lenihan, and Stevens Creek Dams have been completed as part of this project, while the evaluations for Coyote, Chesbro and Uvas are scheduled to continue through 2029. (The seismic stability evaluation for Anderson Dam was completed in a separate project.) Planning, design, and construction of identified seismic improvements, will be funded in the future as site-specific projects.

PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

August 2009 to June 2029

Phase	Cost
Plan	29,803
Design	-
Construct	-
Closeout	-
	29,803

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
91084019-Dam Seismic Stability Evaluations	21,808	427	418	400	400	4,950	350	1,050	29,803
with inflation	21,808	427	418	437	456	5,903	436	1,430	31,315

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
91084019-Dam Seismic Stability Evaluations	22,236	352	353	65	437	456	5,903	436	1,430	31,315

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	31,315
Other Funding Source	0
Total	31,315

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50+ Years

Project	**Pacheco Reservoir Expansion Project (A1)**
Program	Water Supply – Storage
Project No.	91954002
Contact	Christopher Hakes chakes@valleywater.org

Aerial view of Pacheco Reservoir

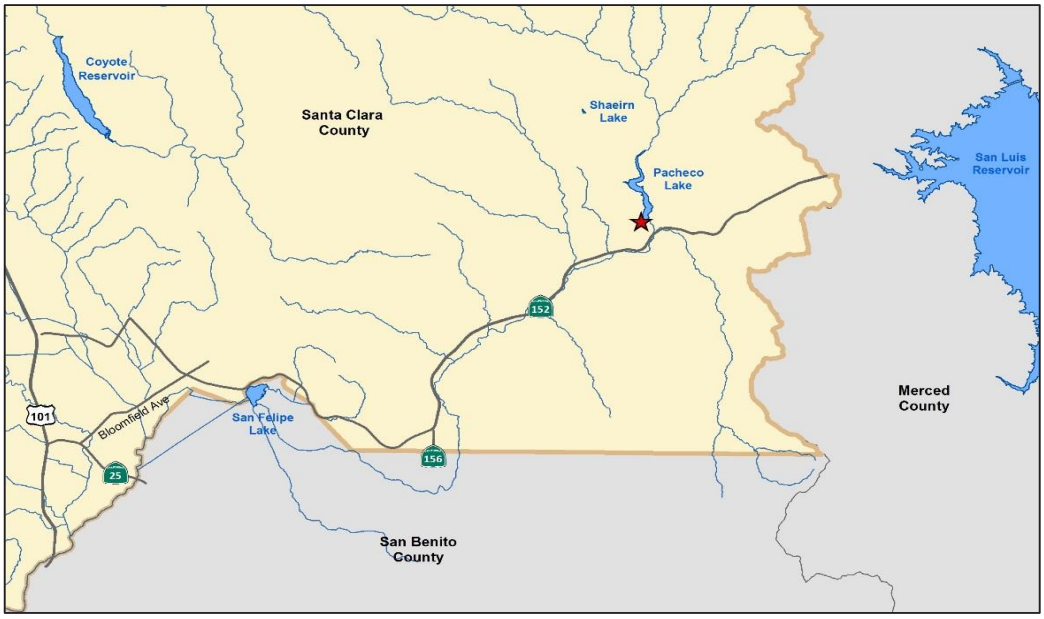
PROJECT DESCRIPTION

This project will include expanding the storage capacity of the existing Pacheco Reservoir to 140,000 acre-feet through construction and operation of a new dam, conveyance facilities, and related appurtenant structures. The project objectives include:

- Increase suitable habitat in Pacheco Creek for federally threatened steelhead.
- Increase water supply reliability to help meet municipal and industrial water demands in Santa Clara County during drought periods and emergencies, or to address shortages due to regulatory and environmental restrictions.
- Develop water supplies for environmental water management that support habitat management and other environmental water needs.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project A1. For a full description of the SCW benefits and KPI's, please visit www.valleywater.org.

PROJECT LOCATION

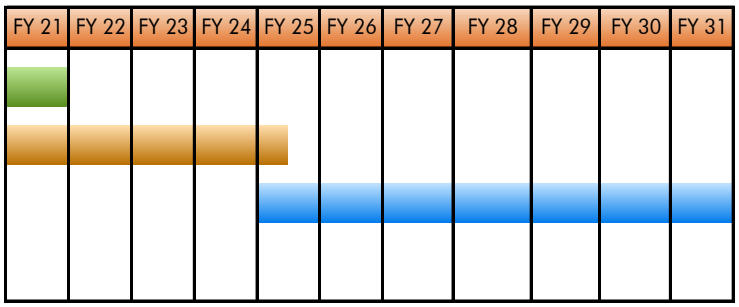


★ Project Location

SCHEDULE & STATUS

December 2018 to September 2032

Phase	Cost
Plan	49,503
Design	88,908
Construct	2,033,138
Closeout	360
	2,204,727



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
91954002-Pacheco Reservoir Expansion Project (A1)	52,370	27,779	30,676	41,750	42,612	207,294	267,957	1,534,289	2,204,727
with inflation	52,370	27,779	30,676	45,592	48,627	235,806	304,608	1,774,467	2,519,926

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
91954002-Pacheco Reservoir Expansion Project (A1)	52,366	27,911	128	30,548	45,592	48,627	235,806	304,608	1,774,467	2,519,926

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	1,618,301
California Water Commission	484,550
SCVWD Safe Clean Water Fund - Measure S	10,000
Partnership Contributions	407,075
Total	2,519,926
Other Funding Sources "Unsecured" (WIIN and WIFIA)	250,000

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the design phase.

USEFUL LIFE: TBD

Project	**Small Capital Improvements, San Felipe**
Program	Water Supply – Storage
Project No.	91214010s
Contact	Greg Williams gwilliams@valleywater.org

Example of bacterial corrosion on a suction wear ring of an impeller

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the life of an asset. This project implements a systematic approach to the renewal and replacement of equipment at facilities within the San Felipe Division, by designing and constructing improvements identified through Valley Water's 10-year asset management program. Infrastructure within this project includes tunnels, large diameter pipelines, valve structures, pumps, and associated support equipment. Reach 1 renewal and replacement activities are conducted in coordination and cooperation with San Felipe Division Reach 1 contractors and other agencies. Planned projects for FY22 include:

- 91214010 Reach 1: Refurbish or rebuild pump 1 motor windings and bearings; replacement of pump 10 discharge guard valve; installation of a fire suppression system; various electrical upgrades.
  Other identified work: Pacheco Tunnel Reach 2 entrance door hydraulic valve operating system replacement; domestic water pump system replacement; western area power administration sub-station surge arresters - 6 kilovolt and 72 kilovolt; chilled water pump-1 and chilled water pump-2 standard rebuild and rehabilitation; mechanical & heating, ventilation and air conditioning gallery upgrades; chiller 1 and 2 repair and rehabilitation; adjustable speed drives gallery, Telephone/Modem/T-1 replacement.
- 91224010 Reach 2: Calaveras Fault Inlet/Calaveras Fault Outlet road access fix (culvert replacements).
- 91234010 Reach 3: Replace existing end-of-life staff trailers. Purchase and install mezzanine and shelving in new warehouse. Coyote Discharge Line – Replace meter vault instrumentation, overhaul and recoat 2 pumps at Coyote Pumping Plant.
- All active projects have positive net present value savings at the time of the feasibility study and are subject to design phase validation.

PROJECT LOCATION

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program. Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY20**	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**Future**	
91214010-Small Capital Improvements, San Felipe Reach 1	n/a	3,811	2,256	1,394	89	864	90	44,924	53,428
with inflation	n/a	3,811	2,256	1,522	102	1,030	112	65,284	74,117
91224010-Small Capital Improvements, San Felipe Reach 2	n/a	859	930	0	0	0	0	10	1,799
with inflation	n/a	859	930	0	0	0	0	12	1,801
91234010-Small Capital Improvements, San Felipe Reach 3	n/a	1,054	1,331	39	45	9	0	2,432	4,910
with inflation	n/a	1,054	1,331	43	51	11	0	3,195	5,684
TOTAL	**0**	**5,724**	**4,517**	**1,433**	**134**	**873**	**90**	**47,366**	**60,137**
with inflation	**0**	**5,724**	**4,517**	**1,565**	**153**	**1,041**	**112**	**68,490**	**81,602**

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY20**	**FY21**		**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**Future**	
91214010-Small Capital Improvements, San Felipe Reach 1	n/a	3,811	0	2,256	1,522	102	1,030	112	65,284	74,117
91224010-Small Capital Improvements, San Felipe Reach 2	n/a	859	0	930	0	0	0	0	12	1,801
91234010-Small Capital Improvements, San Felipe Reach 3	n/a	1,054	0	1,331	43	51	11	0	3,195	5,684
TOTAL	**0**	**5,724**	**0**	**4,517**	**1,565**	**153**	**1,041**	**112**	**68,490**	**81,602**

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	62,645
San Benito County Water District	18,958
Total	**81,602**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Transmission Facilities

Transmission Facilities

- 142 Miles of Pipelines
- 3 Pump Stations
- 12 Capital Projects

Project	**10-Year Pipeline Inspection & Rehabilitation**
Program	Water Supply – Transmission
Project No.	95084002
Contact	Heath McMahon hmcmahon@valleywater.org

A typical rehabilitated line valve assembly

PROJECT DESCRIPTION

The project develops Valley Water's large diameter Pipeline Management Strategy and a 10-year program for implementation tasks associated with the strategy. This program involves the inspection, planning, and design activities required for renewal of Valley Water's large pipelines and tunnels. The project includes the following objectives:

- Perform dewatering and internal inspections of Valley Water's pipelines and tunnels.
- Renew distressed pipe sections as required. Renewal encompasses the actions of repair, rehabilitation, and replacement.
- Perform condition assessment, maintenance, repair, coating, and other activities as required.
- Replace line valves, flow meters, pipeline appurtenance assemblies, and piping as required.
- Improve system performance by installing cathodic protection systems, acoustic fiber optic monitoring of prestressed concrete cylinder pipe, and transient pressure monitoring systems.
- Development of a pipeline asset risk management system that includes geographic information system, databases, algorithms, models, data acquisition, program documents, and decision support systems.

The project schedule includes inspection and renewal work along the various pipelines and tunnels as identified below:

- 2021: Central Pipeline; Parallel East Pipeline; Santa Clara Conduit Phase I, Santa Clara Tunnel
- 2022: Santa Clara Conduit Phase II, Almaden Valley Pipeline
- 2023: Snell Pipeline Phase I
- 2024: West Pipeline Phase I
- 2025: West Pipeline Phase II

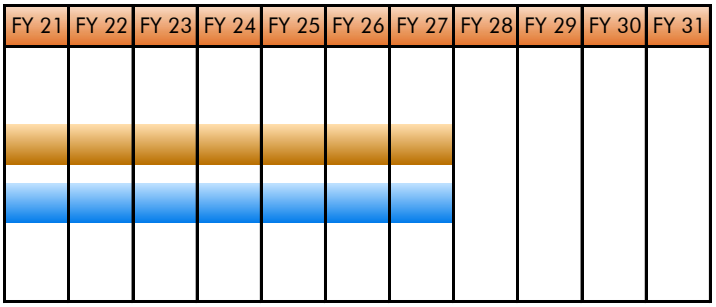
PROJECT LOCATION

Project Location

SCHEDULE & STATUS

July 2017 to June 2027

Phase	Cost
Plan	799
Design	16,181
Construct	107,704
Closeout	671
	136,043



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
95084002-10-Year Pipeline Inspection & Rehabilitation	48,714	18,884	20,879	23,517	10,252	10,768	1,409	1,620	136,043
with inflation	48,714	18,884	20,879	25,134	11,457	12,171	1,756	2,110	141,104

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
95084002-10-Year Pipeline Inspection & Rehabilitation	55,239	16,995	4,636	16,243	25,134	11,457	12,171	1,756	2,110	141,104

Adjusted Budget includes adopted budget plus any planned budget adjustment.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	141,104
Other Funding Sources	0
Total	141,104

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50+ Years

Project	**Almaden Valley Pipeline Replacement**
Program	Water Supply - Transmission
Project No.	92304001
Contact	Heath McMahon hmcmahon@valleywater.org

Almaden Valley Pipeline Replacement work is underway

PROJECT DESCRIPTION

The Almaden Valley Pipeline (AVP) is a part of the Valley Water raw water delivery system. This pipeline is used to supply raw water to Valley Water's water treatment plants and groundwater recharge facilities. This pipeline provides access, with no redundancy, to local raw water sources from Valley Water's Anderson and Calero Reservoirs and imported water from the United States Bureau of Reclamation San Luis Reservoir and San Felipe system. The AVP was constructed in two major units/phases: Unit 1 was constructed in the 1960s and Unit 2 was constructed in the 1980s. The AVP is approximately 12 miles in length consisting of 72-inch up to 78-inch diameter prestressed concrete cylinder pipe (approximately 7.5 miles), welded steel pipe and bar wrapped pipe (approximately 4.2 miles).

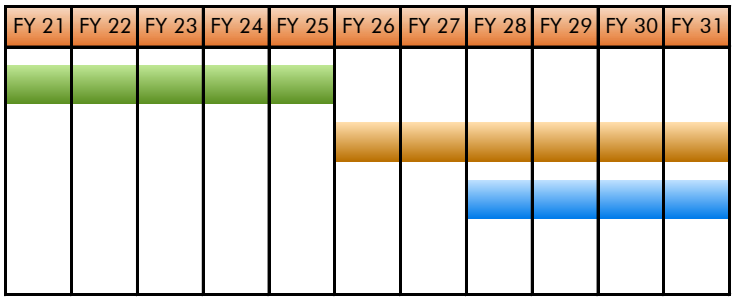
PROJECT LOCATION

Project Location

SCHEDULE & STATUS

July 2019 to June 2040

Phase	Cost
Plan	8,402
Design	11,219
Construct	44,443
Closeout	-
	64,064



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
92304001-Almaden Valley Pipeline Replacement	0	668	828	1,147	2,160	1,587	1,923	55,751	64,064
with inflation	0	668	828	1,253	2,465	1,893	2,396	80,525	90,027

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
92304001-Almaden Valley Pipeline Replacement	0	668	0	828	1,253	2,465	1,893	2,396	80,525	90,027

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	90,027
Other Funding Sources	0
Total	90,027

OPERATING COST IMPACTS

Operating cost impacts will be determined during the design phase.

USEFUL LIFE: 50+ Years

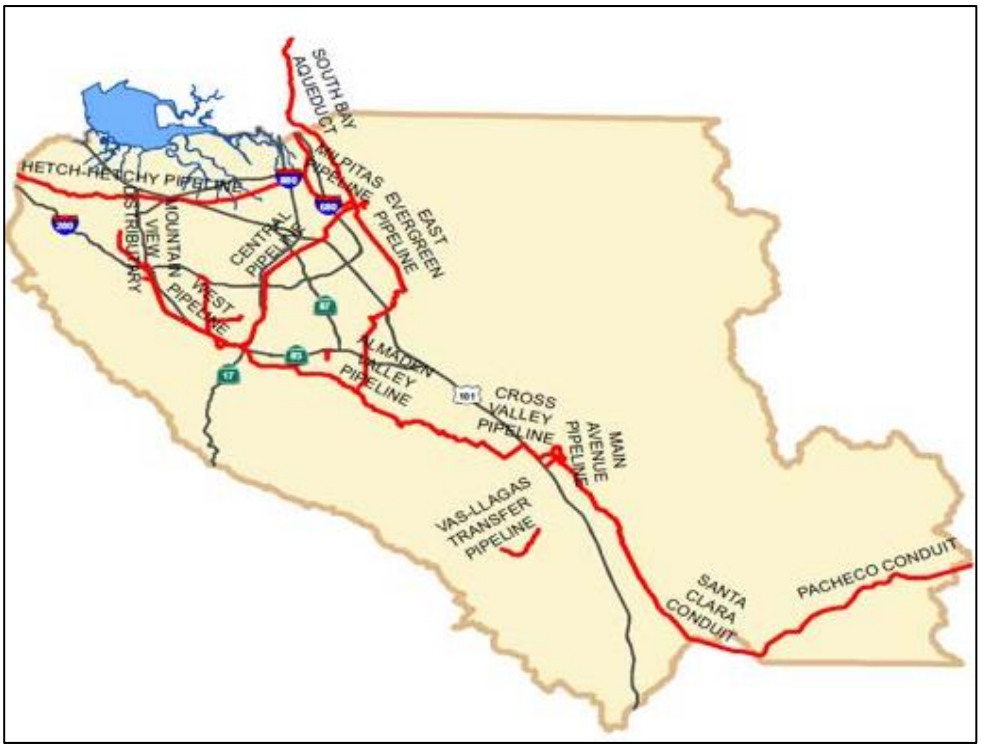
Project	**Distribution System Implementation Project**
Program	Water Supply - Transmission
Project No.	95044001
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org

Distribution System Implementation Plan

PROJECT DESCRIPTION

This project will develop a comprehensive 30-year implementation plan to identify improvements to Valley Water's raw and treated water systems based on current demands, future growth, and emergencies. The project will optimize our raw and treated water distribution systems, evaluate retailer needs, recommend direct capital actions needed to protect existing distribution systems, and result in a programmatic EIR.

PROJECT LOCATION



Project Location

SCHEDULE & STATUS

June 2020 to June 2023

Phase	Cost
Plan	7,319
Design	365
Construct	-
Closeout	-
	7,684

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
95044001-Distribution System Implementation Project	0	2,000	3,241	2,443	0	0	0	0	7,684
with inflation	0	2,000	3,241	2,668	0	0	0	0	7,909

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
95044001-Distribution System Implementation Project	0	2,383	383	2,858	2,668	0	0	0	0	7,909

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	7,909
Other Funding Sources	0
Total	7,909

OPERATING COST IMPACTS

This project is not anticipated to increase or decrease annual operating costs, as the project is a planning and design effort. Projects and programs identified through the implementation plan will have their own operating cost impacts identified as they come online.

USEFUL LIFE: Not Available

Project	**FAHCE Implementation**
Program	Water Supply - Transmission
Project No.	92C40357
Contact	John Bourgeois jbourgeois@valleywater.org

Fish habitats, such as the one shown here, will be developed for habitat conservation

PROJECT DESCRIPTION

In 1996, Guadalupe-Coyote Resource Conservation District (GCRCD) filed a water rights complaint against the district alleging degraded fish, wildlife, water quality and other beneficial uses in Coyote Creek, Guadalupe River and Stevens Creek. The 1997 listing of Central California Coast Steelhead as a threatened species under Federal Endangered Species Act requires Valley Water to obtain permits to address the impacts of its water supply activities on aquatic habitat and instream flows. In 2003, a settlement agreement was initialed by parties involved. Valley Water is the process of preparing a Fish Habitat Restoration Plan (FHRP) and associated environmental impact report to complete the water rights change petitions, resolve the water rights complaint and address issues raised in the 2003 Settlement Agreement. The FAHCE program consists of reservoir reoperations to support salmonid spawning, rearing and migration; provide fish passage and aquatic habitat restoration measures, and to adaptively manage FHRP implementation in the Guadalupe River, Coyote Creek and Stevens Creek watersheds (Three Creeks).

PROJECT LOCATION

Project sites will be located at reservoirs and streams within the Three Creeks Project Area, in the Guadalupe, Coyote and Stevens Creek Watersheds. Project site locations are yet to be determined and no map is provided.

SCHEDULE & STATUS

July 2020 to June 2026

Phase	Cost
Plan	145,108
Design	-
Construct	-
Closeout	-
	145,108

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
92C40357-FAHCE Implementation	0	0	0	4,739	4,379	14,691	14,690	106,609	145,108
with inflation	0	0	0	4,739	4,379	14,691	14,690	106,609	145,108

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
92C40357-FAHCE Implementation	0	0	0	0	4,739	4,379	14,691	14,690	106,609	145,108

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	145,108
Other Funding Source	0
Total	145,108

OPERATING COST IMPACTS

Operating cost impacts will be dependent on the maintenance requirements of each site. Once the sites have been identified, operating costs will be determined based on the existing conditions and maintenance identified for each site.

USEFUL LIFE: Not Available

Project	**IRP2 Additional Line Valves (A3)**
Program	Water Supply – Transmission
Project No.	26764001
Contact	Heath McMahon hmcmahon@valleywater.org

New line valves, actuators, and vaults similar to this will be installed along the East, West, and Snell pipelines

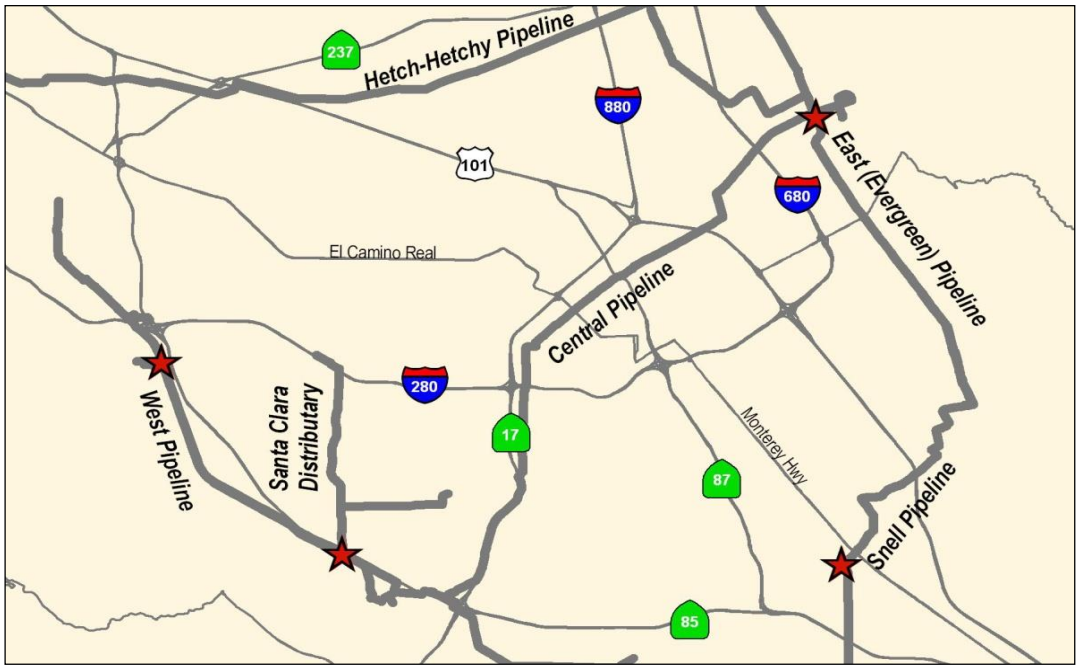
PROJECT DESCRIPTION

This project plans, designs, and constructs four additional line valves in the treated water distribution system, as defined in the Water Infrastructure Reliability Plan, Phase 2 (IRP2). Design and construction of this project will be in conjunction with work on the same pipelines under the 10- year Pipeline Inspection and Rehabilitation Project. The new line valves will be at various locations along the East, West, and Snell pipeline to accomplish the following objectives:

- Allow Valley Water to isolate sections of the treated water pipeline for general maintenance or to repair activities following a major seismic event.
- Allow the network of emergency wells to operate, even when there is damage upstream and downstream of individual wells.

This project meets the commitments of the Safe, Clean Water Program (SCW), Project A3. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION



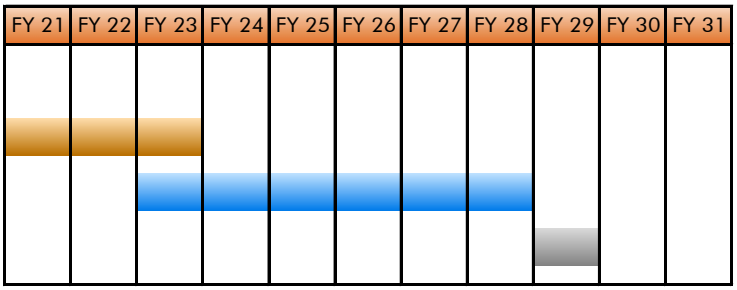
★ Project Location

SCHEDULE & STATUS

July 2018 to June 2029

Line valve construction to be coordinated with pipeline maintenance and rehabilitation projects.

Phase	Cost
Plan	163
Design	1,813
Construct	8,428
Closeout	70
	10,564



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26764001-IRP2 Additional Line Valves (A3)	949	1,172	315	42	1,470	2,182	2,182	2,252	10,564
with inflation	949	1,172	315	46	1,632	2,492	2,576	2,851	12,032

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
26764001-IRP2 Additional Line Valves (A3)	1,489	634	2	313	46	1,632	2,492	2,576	2,851	12,032

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Safe Clean Water Fund	12,032
Other Funding Source	0
Total	12,032

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 35 Years

Project Main & Madrone Pipelines Restoration (A1)
Program Water Supply - Transmission
Project No. 26564001 **Contact** Heath McMahon hmcmahon@valleywater.org

Main Avenue Ponds facing North

Madrone Pipeline Outlet into Madrone Channel looking North along Northbound Interstate 101

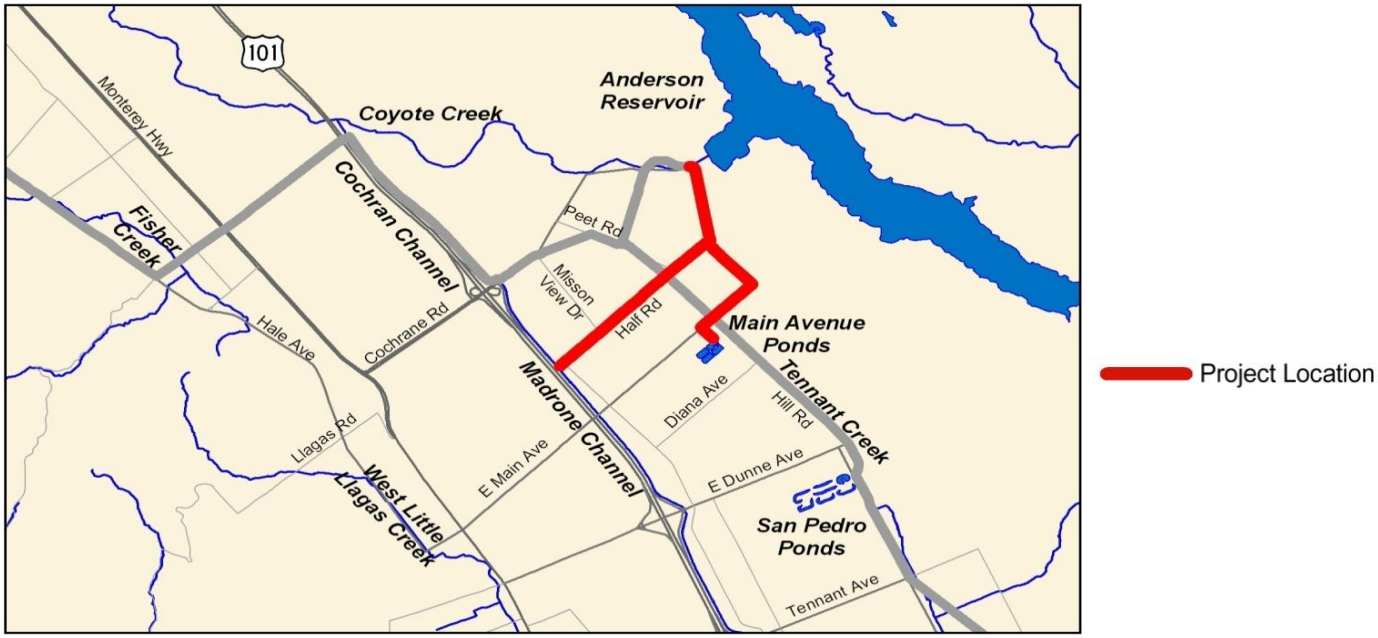
PROJECT DESCRIPTION

This project plans, designs, and constructs improvements on the full length of the Madrone Pipeline and rehabilitates the Main Avenue Pipeline to accomplish the following objectives:

- Provide the means to utilize another reliable water source, (e.g. Anderson Reservoir) to supply water to the Main Avenue Ponds and the Madrone Channel.
- Allow for greater flows to the Main Avenue Ponds and the Madrone Channel.
- Maximize imported water flows to the treatment plants.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project A1. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION



SCHEDULE & STATUS

July 2014 to June 2021

Phase	Cost
Plan	346
Design	3,092
Construct	13,585
Closeout	225
	17,568

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26564001-Main & Madrone Pipelines Restoration (A1)	17,343	225	0	0	0	0	0	0	17,568
with inflation	17,343	225	0	0	0	0	0	0	17,568

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
26564001-Main & Madrone Pipelines Restoration (A1)	17,570	0	2	0	0	0	0	0	0	17,570

Allocated funding exceeds total planned expenditures by approximately $2,000. Excess funds will be returned to Fund Reserves at the close of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	6,354
SCVWD Water Utility Enterprise Fund	11,214
Total	17,568

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as it does not significantly alter the facility or modes of operation.

USEFUL LIFE: 40 Years

Project	**Pacheco/Santa Clara Conduit Right of Way Acquisition**
Program	Water Supply – Transmission
Project No.	92144001
Contact	Heath McMahon hmcmahon@valleywater.org

Access to much of the San Felipe Division pipelines must currently be made through private property, due to a lack of easements, such as Bloomfield access at Vault 21-23

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements related to the acquisition of right-of-way along the South County pipelines to accomplish the following objectives:

- Provide unlimited access to Valley Water-owned pipelines.
- Reduce conflicts with local land owners and improve response time for emergency repairs or operations.

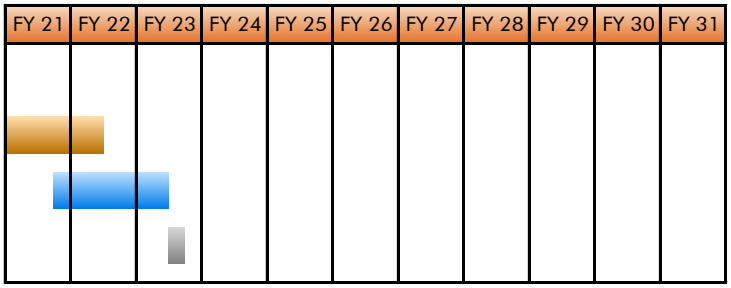
PROJECT LOCATION

Project Location

SCHEDULE & STATUS

July 2009 to March 2023

Phase	Cost
Plan	1,712
Design	2,357
Construct	1,055
Closeout	35
	5,277



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
92144001-Pacheco/Santa Clara Conduit Right of Way Acquisition	1,810	1,519	1,662	286	0	0	0	0	5,277
with inflation	1,810	1,519	1,662	311	0	0	0	0	5,302

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
92144001-Pacheco/Santa Clara Conduit Right of Way Acquisition	2,827	507	5	1,657	311	0	0	0	0	5,302

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	5,275
San Benito County Water District	27
Total	5,302

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $8,000 per year, beginning in FY23, for vegetation control and/or maintenance of fences, gates and locks for the access roads.

USEFUL LIFE: 15-20 Years

Project	**SCADA Implementation Project**
Program	Water Supply - Transmission
Project No.	95044002
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org

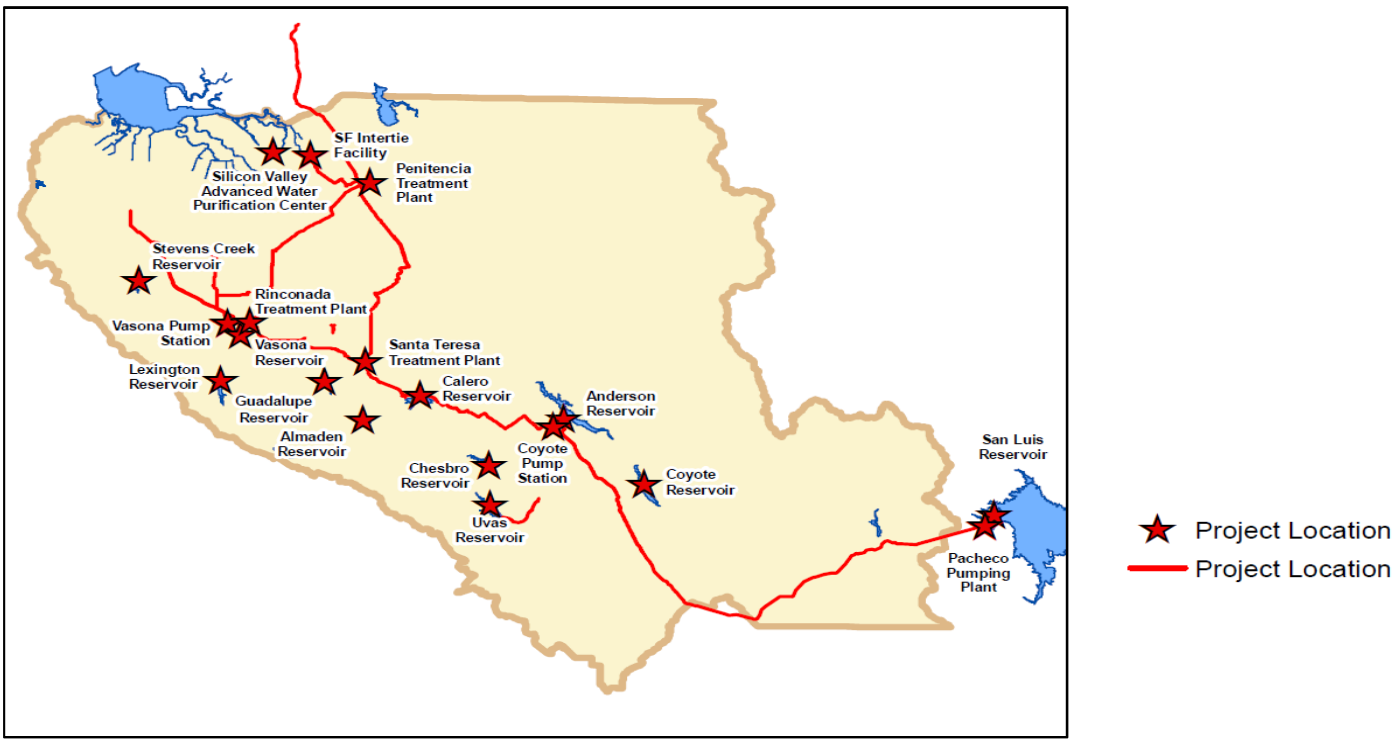
Process control / SCADA system

PROJECT DESCRIPTION

The process control/supervisory control and data acquisition (SCADA) systems, which serve a pivotal role in monitoring and controlling Valley Water's raw water conveyance system (including reservoirs and pumping plants), treatment plants, and distribution systems, are aging and in need of a coordinated replacement and upgrade.

The proper functioning of these systems is essential for meeting water demand, maintaining water quality, achieving regulatory compliance, and satisfying customer expectations. In addition, the process control/SCADA systems provide important data used accross the organization in the Operations, Maintenance, Water Quality, and Management divisions. Improved access to the data provided by this project will allow for more efficient management and operation of all the complex facilities and systems involved.

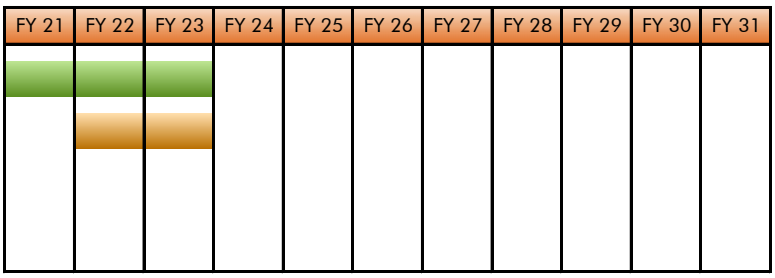
PROJECT LOCATION



SCHEDULE & STATUS

July 2020 to June 2023

Phase	Cost
Plan	4,556
Design	1,694
Construct	-
Closeout	-
	6,250



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
95044002-SCADA Implementation Project	0	1,365	2,384	2,501	0	0	0	0	6,250
with inflation	0	1,365	2,384	2,731	0	0	0	0	6,480

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
95044002-SCADA Implementation Project	0	1,365	0	2,384	2,731	0	0	0	0	6,480

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	6,480
Other Funding Sources	0
Total	6,480

OPERATING COST IMPACTS

This project is not anticipated to increase or decrease annual operating costs, as the project is a planning and design effort. Projects identified through this implementation project will have their own operating cost impacts identified as they come online.

USEFUL LIFE: Not Available

Project	**Small Capital Improvements, Raw Water Transmission**
Program	Water Supply – Transmission
Project No.	92764009
Contact	Greg Williams gwilliams@valleywater.org

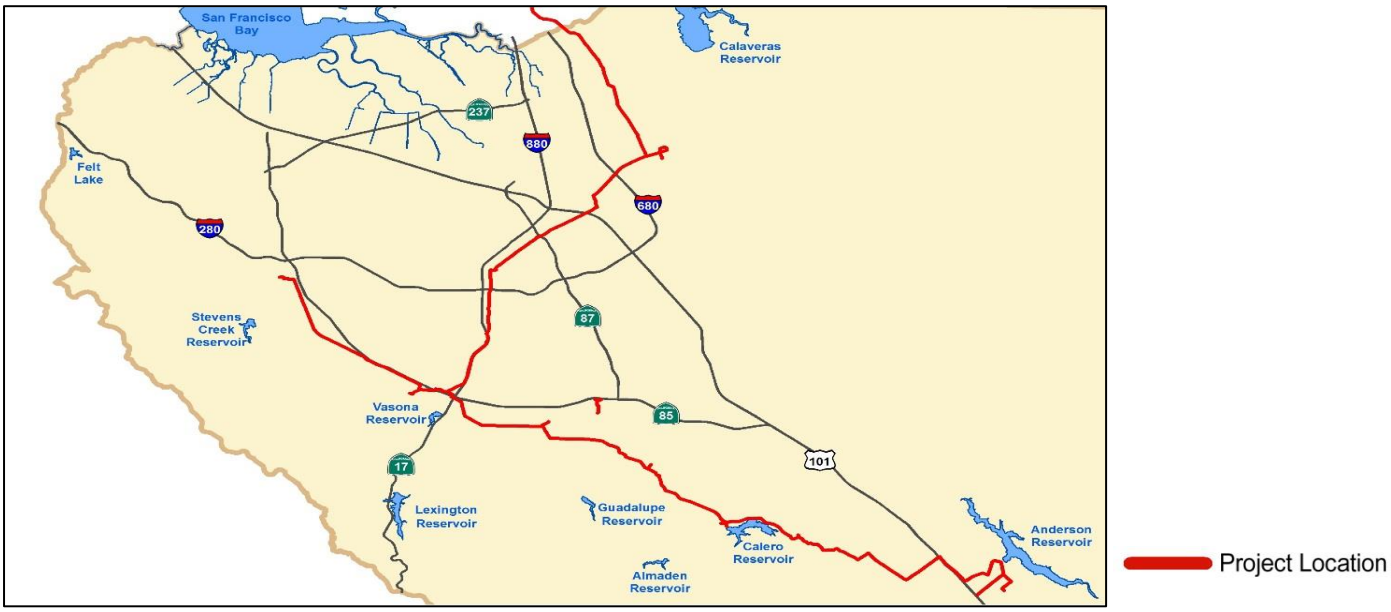
Major repair and replacement of turnout roofs and similar small raw water capital projects will be completed in accordance with the asset management plan.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the life of an asset. This project will repair or rehabilitate various existing raw water distribution facilities. These activities include identifying and fixing corrosion problems, replacing valves and other appurtenances and modifying water recharge facilities to avoid failure of the raw water transmission system and extend the life of the infrastructure. This project is part of Valley Water's 10-year asset management program. Planned projects for FY22 include:

- Vasona Pumping Plant security fencing.
- Turnout roof replacements.
- Purchase spare parts for inventory.
- Calero Reservoir Inlet Flowmeters Replacement.
- Permanent Valley Habitat Plan buyout of all work areas within District Fee (for Cross Valley Pipeline and Recharge sites).
- Recycled water pipeline video inspection.

PROJECT LOCATION



SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
92764009-Small Capital Improvements, Raw Water Transmission	n/a	82	169	16	335	5,637	218	2,886	9,343
with inflation	n/a	82	169	17	382	6,722	272	4,248	11,893

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
92764009-Small Capital Improvements, Raw Water Transmission	n/a	82	0	169	17	382	6,722	272	4,248	11,893

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	11,893
Other Funding Source	0
Total	11,893

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Small Capital Improvements, Treated Water Transmission**
Program	Water Supply – Transmission
Project No.	94764006
Contact	Greg Williams gwilliams@valleywater.org

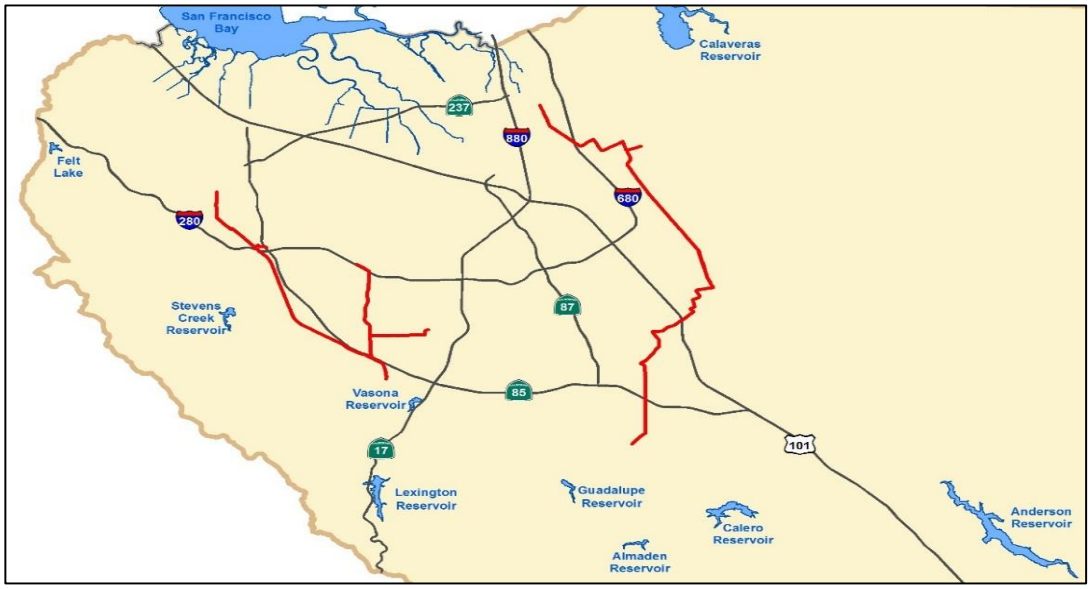
Valve installation in the Piedmont Line Valve Vault; Similar small capital projects will be carried out at treated water transmission facilities according to the asset management plan.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the life of an asset. This project will repair or rehabilitate various existing treated water distribution facilities, such as identifying and treating corrosion problems, replacing valves and other appurtenances and repairing or adding turnouts to avoid failure of the treated water transmission system and to extend the life of the infrastructure. This project is part of Valley Water's 10-year asset management program. Planned projects for FY22 include:

- Treated water meter replacements.

PROJECT LOCATION



Project Location

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
94764006-Small Capital Improvements, Treated Water Transmission	n/a	0	36	36	26	100	42	175	415
with inflation	n/a	0	36	39	30	119	52	256	532

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
94764006-Small Capital Improvements, Treated Water Transmission	n/a	0	0	36	39	30	119	52	256	532

Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	532
Other Funding Source	0
Total	**532**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Treated Water Isolation Valves**
Program	Water Supply – Transmission
Project No.	94084007
Contact	Heath McMahon hmcmahon@valleywater.org

New line valves similar to this will be installed at three locations within the treated water system

PROJECT DESCRIPTION

This project plans, designs, and constructs three (3) additional line valve appurtenances to accomplish the following objectives:

- Improve service levels to treated water system customers in a major hazard event or system outage.
- Improve Valley Water's ability to take sections of the treated water distribution system out of service for maintenance activities.

PROJECT LOCATION

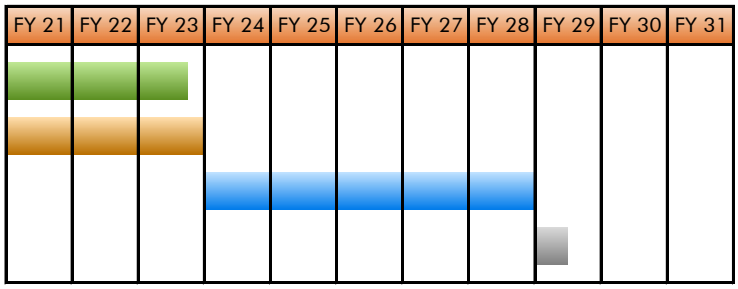
★ Project Location

SCHEDULE & STATUS

December 2018 to December 2028

Line valve construction to be coordinated with other pipeline maintenance and rehabilitation projects.

Phase	Cost
Plan	165
Design	1,170
Construct	6,116
Closeout	53
	7,504



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
94084007-Treated Water Isolation Valves	26	0	991	139	2,197	0	2,064	2,087	7,504
with inflation	26	0	991	152	2,433	0	2,439	2,643	8,683

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
94084007-Treated Water Isolation Valves	1,271	0	1,245	0	0	2,331	0	2,439	2,643	8,683

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	8,683
Other Funding Sources	0
Total	8,683

OPERATING COST IMPACTS

The operating budget impact for the three proposed line valve facilities is estimated to be $21,000 per year beginning in FY28.

USEFUL LIFE: 50 Years

Project	**Vasona Pump Station Upgrade**
Program	Water Supply – Transmission
Project No.	92264001
Contact	Heath McMahon hmcmahon@valleywater.org

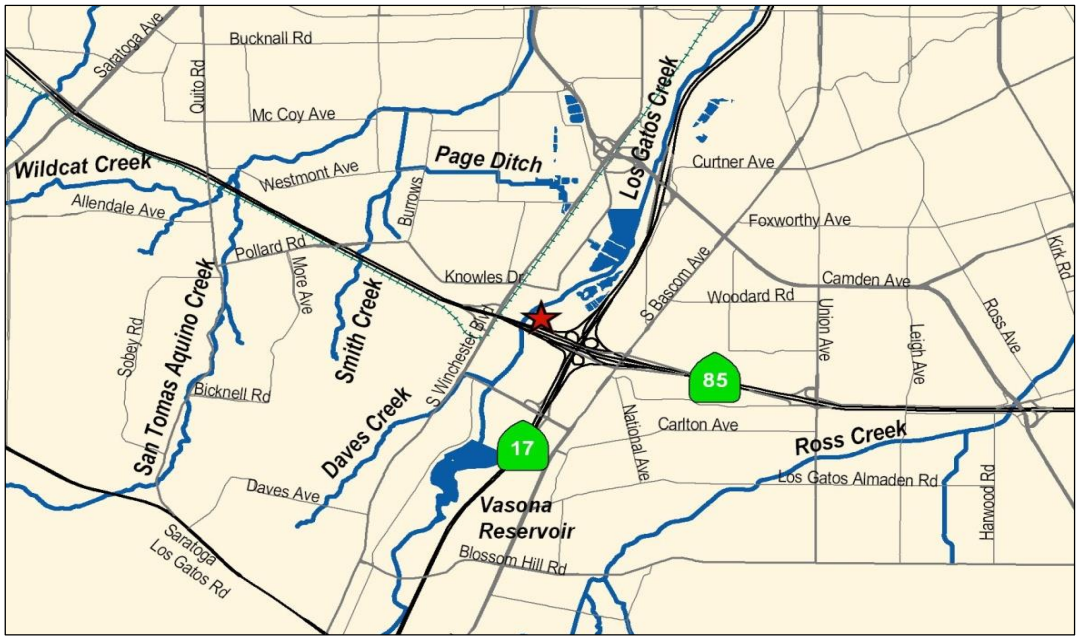
Vasona Pump Station

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Vasona Pump Station, including replacing aging pumps, motors, drives, valves, actuators, and electrical and control systems that have reached the end of their useful life; and adding one redundant pump. The project will accomplish the following objectives:

- Eliminate the risk of failure by replacing assets that have reached the end of their useful life, including four pumps (two 200 horsepower, two 400 horsepower) and associated motors, drives, electrical and control systems, as well as pump discharge and suction valves and actuators.
- Increase operational flexibility and prepare for future capacity needs by adding one redundant pump and increasing the size of all pumps.

PROJECT LOCATION

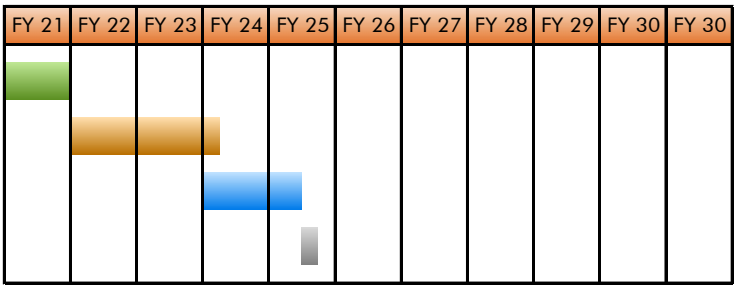


★ Project Location

SCHEDULE & STATUS

July 2017 to February 2025

Phase	Cost
Plan	1,307
Design	1,688
Construct	18,770
Closeout	70
	22,526



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
92264001-Vasona Pump Station Upgrade	1,328	1,795	717	18,040	478	168	0	0	22,526
with inflation	1,328	1,795	717	19,159	545	200	0	0	23,745

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
92264001-Vasona Pump Station Upgrade	1,905	1,218	0	717	19,159	545	200	0	0	23,745

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

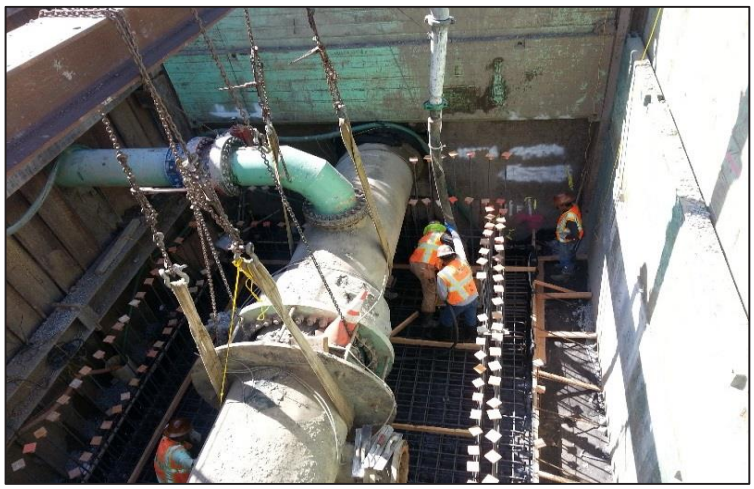
SCVWD Water Utility Enterprise Fund	23,745
Other Funding Sources	0
Total	23,745

OPERATING COST IMPACTS

The completion of this project is anticipated to reduce Valley Water maintenance costs about 50%; starting in FY25, operating and maintenance costs will be approximately $70,000 per year.

USEFUL LIFE: 50 Years

Project	**Westside Retailer Interties**
Program	Water Supply – Transmission
Project No.	94084008
Contact	Heath McMahon hmcmahon@valleywater.org



New interties similar to this will be installed in the cities of Santa Clara and Mountain View.

PROJECT DESCRIPTION

This project plans, designs, and constructs two new retailer interties and associated appurtenances, structures, and controls in the cities of Santa Clara and Mountain View. The project will accomplish the following objectives:

- Improve service levels to the West treated water system customers in a major hazard event or system outage.
- Improve Valley Water's ability to take sections of the West treated water distribution system out of service for maintenance activities.

PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

April 2018 to January 2021

Phase	Cost
Plan	62
Design	7
Construct	-
Closeout	-
	72

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
94084008-Westside Retailer Interties	72	0	0	0	0	0	0	0	72
with inflation	72	0	0	0	0	0	0	0	72

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
94084008-Westside Retailer Interties	147	0	75	0	0	0	0	0	0	147

Funding exceeds planned expenditures by approximately $75,000. Excess funding will be returned to reserves upon completion of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	147
Other Funding Sources	0
Total	147

OPERATING COST IMPACTS

N/A

USEFUL LIFE: 50 Years

Treatment Facilities

Treatment Facilities

- 3 Treatment Plants
- 8 Capital Projects

Project PWTP Residuals Management
Program Water Supply - Treatment
Project No. 93234044 **Contact** Heath McMahon hmcmahon@valleywater.org

Existing settling pond and residuals building to be replaced with new residuals management facility

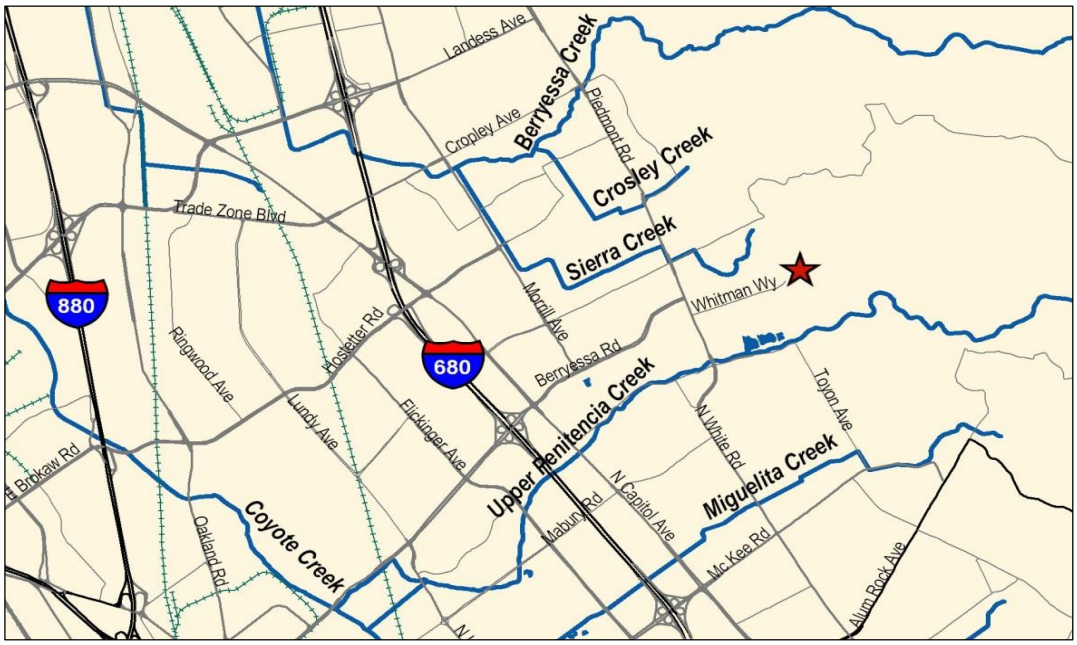
Existing belt press to be replaced with new residuals management facility

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Penitencia Water Treatment Plant (PWTP) residuals management process to accomplish the following objectives:

- Extend the useful life of the treatment plant.
- Improve the efficiency of the residual management processes.
- Minimize or eliminate (existing) operational constraints and impacts to the drinking water treatment process.
- Minimize risk of discharge violations.
- Improve the reliability of PWTP.
- Install a new washwater clarification facility.

PROJECT LOCATION

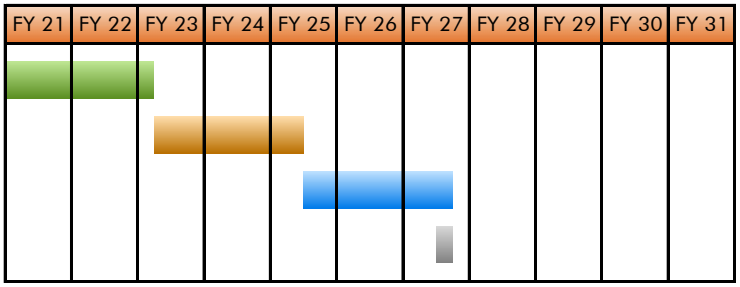


★ Project Location

SCHEDULE & STATUS

July 2020 to March 2027

Phase	Cost
Plan	3,184
Design	2,950
Construct	32,743
Closeout	75
	38,952



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
93234044-PWTP Residuals Management	0	683	1,593	1,777	1,424	8,843	16,371	8,261	38,952
with inflation	0	683	1,593	1,941	1,625	10,096	18,783	9,572	44,291

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
93234044-PWTP Residuals Management	0	683	0	1,593	1,941	1,625	10,096	18,783	9,572	44,291

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	44,291
Other Funding Sources	0
Total	**44,291**

OPERATING COST IMPACTS

Operating cost impacts will be determined during the construction phase.

USEFUL LIFE: Not Available

Project RWTP Residuals Remediation
Program Water Supply - Treatment
Project No. 93294051s **Contact** Heath McMahon hmcmahon@valleywater.org

Centrifuge for mechanical dewatering of sludge

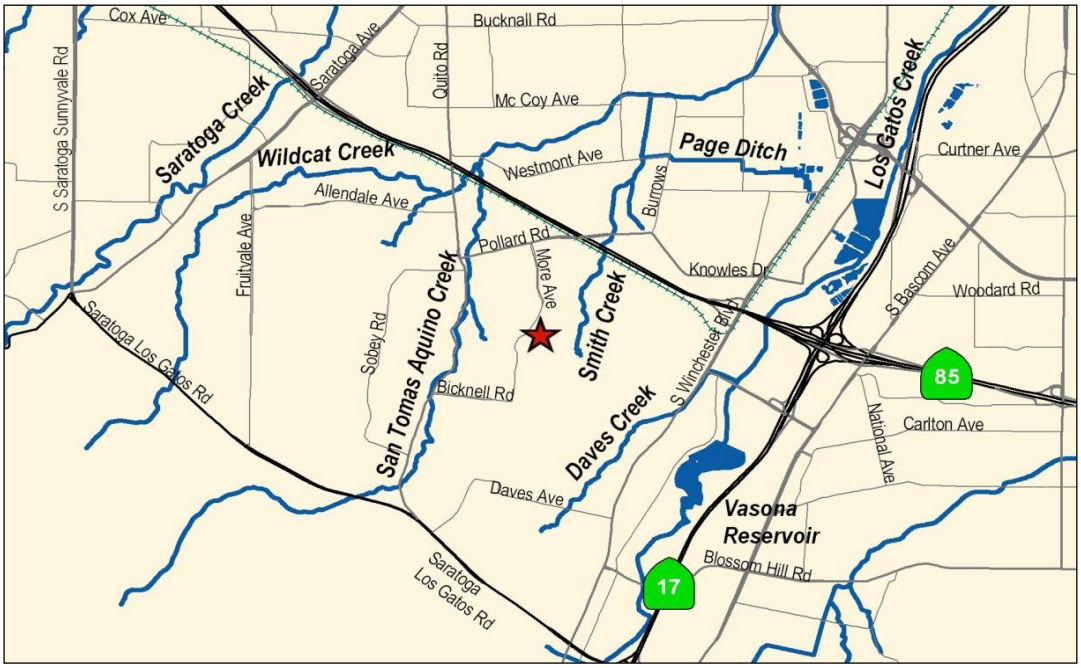
New gravity thickeners and mix tank for sludge thickening and blending

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Rinconada Water Treatment Plant (RWTP) residuals management processes and will accomplish the following objectives:

- Extend the useful life of the treatment plant.
- Improve the efficiency of the residual management processes.
- Minimize risk of discharge violations.
- Improve the reliability of RWTP.

PROJECT LOCATION

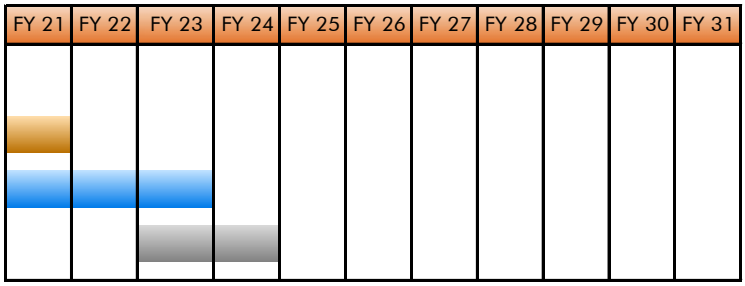


★ Project Location

SCHEDULE & STATUS

July 2008 to June 2024

Phase	Cost
Plan	2,193
Design	10,331
Construct	49,704
Closeout	372
	63,957



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY20**	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**Future**	
93294051-RWTP FRP Residuals Management	31,713	190	1	0	0	0	0	0	31,904
with inflation	31,713	190	1	0	0	0	0	0	31,904
93294058-RWTP Residuals Remediation	5,319	2,200	15,744	8,235	555	0	0	0	32,053
with inflation	5,319	2,200	15,744	8,791	633	0	0	0	32,687
TOTAL	**37,032**	**2,390**	**15,745**	**8,235**	**555**	**0**	**0**	**0**	**63,957**
with inflation	**37,032**	**2,390**	**15,745**	**8,791**	**633**	**0**	**0**	**0**	**64,591**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY20**	**FY21**		**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**Future**	
93294051-RWTP FRP Residuals Management	38,573	0	6,670	0	0	0	0	0	0	38,573
93294058-RWTP Residuals Remediation	7,632	10,278	10,391	5,353	8,791	633	0	0	0	32,687
TOTAL	46,205	10,278	17,061	5,353	8,791	633	0	0	0	71,260

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately $6,669,000. Excess funding will be returned to reserves upon project completion.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	71,260
Other Funding Source	0
Total	**71,260**

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease annual operating costs by approximately $200,000 per year starting in FY24.

USEFUL LIFE:

Structures – 50 Years, Mechanical Equipment – 15 Years, Electrical Equipment – 10 Years

Project RWTP Reliability Improvement
Program Water Supply - Treatment
Project No. 93294057 **Contact** Heath McMahon hmcmahon@valleywater.org

Aerial view of the
Rinconada Water Treatment Plant facing west

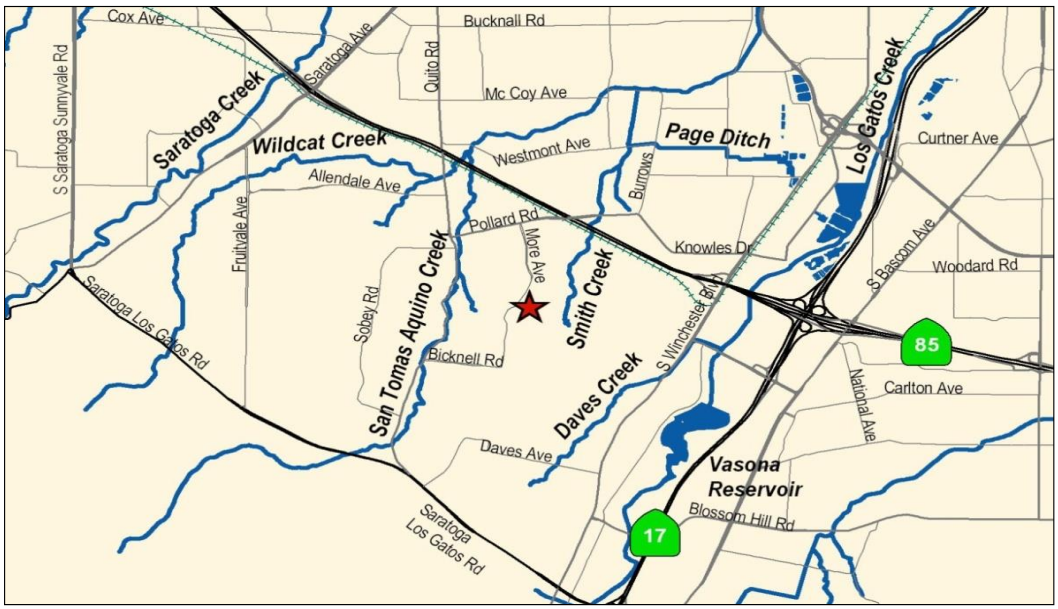
Artist rendering of the aerial view of the Rinconada
Water Treatment Plant facing south after construction

PROJECT DESCRIPTION

This project plans, designs, and constructs new facilities at Rinconada Water Treatment Plant (RWTP) that will improve plant reliability by accomplishing the following objectives:

- Construct a new raw water ozonation facility.
- Construct a new flocculation and plate settler clarification facility.
- Implement a dual media filtration system.
- Increase RWTP capacity to 100 million gallons per day.

PROJECT LOCATION

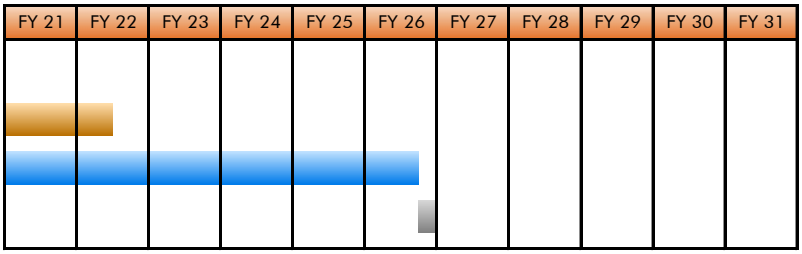


★ Project Location

SCHEDULE & STATUS

July 2009 to June 2026

Phase	Cost
Plan	1,954
Design	21,309
Construct	314,122
Closeout	120
	355,809



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
93294057-RWTP Reliability Improvement	220,257	31,391	20,841	21,120	23,680	21,780	16,740	0	355,809
with inflation	220,257	31,391	20,841	22,455	24,570	22,700	17,660	0	359,874

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
93294057-RWTP Reliability Improvement	220,363	31,506	221	20,620	22,455	24,570	22,700	17,660	0	359,874

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	359,874
Other Funding Source	0
Total	**359,874**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $1.4 million per year, beginning in FY26. Increases are for routine maintenance and operation of new equipment.

USEFUL LIFE:

Media – 20 Years, Structures – 50 Years, Equipment – 15 Years

Project	**RWTP Treated Water Valves Upgrade**
Program	Water Supply – Treatment
Project No.	93294056
Contact	Heath McMahon hmcmahon@valleywater.org

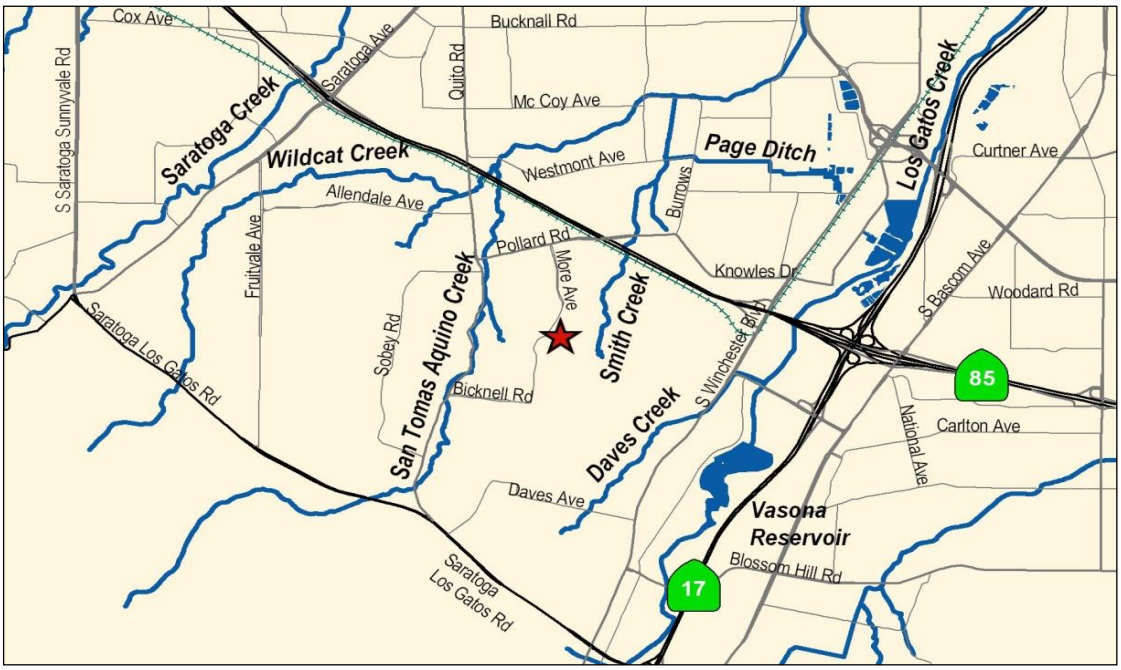
Example of a valve to be replaced or upgraded

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Rinconada Water Treatment Plant (RWTP), including seismically strengthening the chemical storage structures; replacing/upgrading the valves and appurtenances used to control treated water at the clearwells and the Rinconada Reservoir; repairing a damaged baffle wall in the Rinconada Reservoir; and installing a 48-inch magnetic flow meter on the treatment plant's treated water effluent pipeline. Consistent with the Facility Renewal Program, this project will accomplish the following objectives:

- Ensure plant operational reliability.
- Improve ability to maintain RWTP.
- Allow for better isolation of the treated water control valves for future work.
- Achieve greater accuracy in measuring treated water deliveries.
- Restore existing landscaping after drought.

PROJECT LOCATION

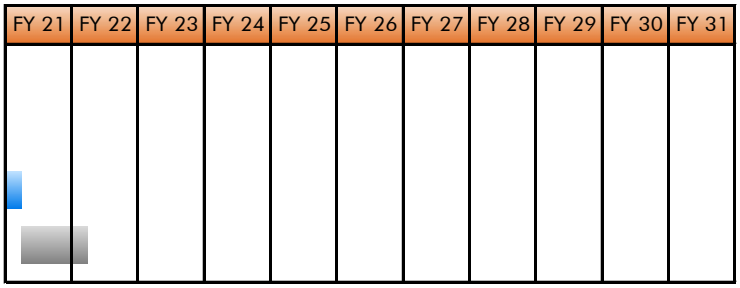


★ Project Location

SCHEDULE & STATUS

July 2009 to September 2021

Phase	Cost
Plan	465
Design	1,481
Construct	6,599
Closeout	11
	8,630



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
93294056-RWTP Treated Water Valves Upgrade	8,331	288	11	0	0	0	0	0	8,630
with inflation	8,331	288	11	0	0	0	0	0	8,630

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
93294056-RWTP Treated Water Valves Upgrade	8,624	0	5	6	0	0	0	0	0	8,630

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	8,630
Other Funding Source	0
Total	8,630

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operations.

USEFUL LIFE: 40 Years

Project	**Small Capital Improvements, Water Treatment**
Program	Water Supply – Treatment
Project No.	93764004
Contact	Greg Williams gwilliams@valleywater.org

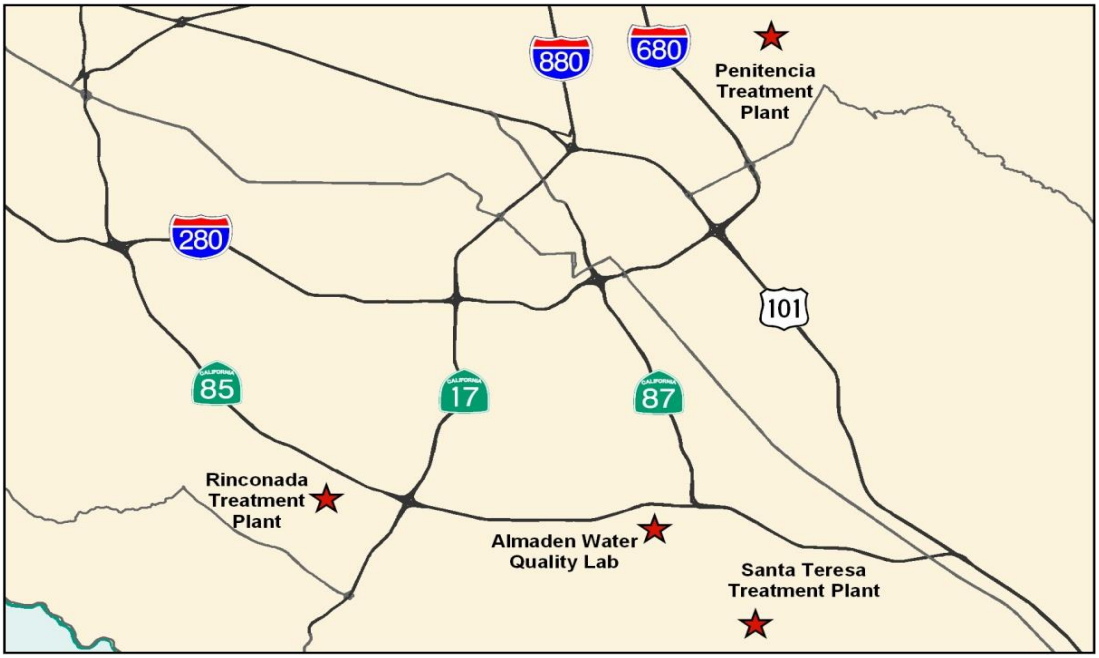
Sludge pond sediment removal at Santa Teresa Water Treatment Plant

PROJECT DESCRIPTION

This project provides resources for small capital improvements that replace or extend the life of an asset. This project implements a systematic approach of equipment replacement and renewal at the three water treatment plants and laboratory by designing and constructing improvements identified as part of Valley Water's 10-year asset management program. Typical activities of this project include pump, motor, instrumentation and valve replacement; chemical tank repairs; and large-scale renewal and replacement activities like clarifier mechanism overhaul and replacement. Planned projects to complete for Santa Teresa Water Treatment Plant (STWTP), Penitencia Water Treatment Plan (PWTP), Rinconada Water Treatment Plant (RWTP), West Pipeline, and Silicon Valley Advanced Water Purification Center include:

- Provide engineering, supplies, and services support for the Sulfuric Acid Water Quality project.
- Purchase Laboratory Information Management System.
- Complete Small Capital Projects at STWTP, RWTP, PWTP and Campbell Well Field.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
93764004-Small Capital Improvements, Water Treatment	n/a	10,285	7,503	1,296	4,716	2,658	2,704	16,356	45,518
with inflation	n/a	10,285	7,503	1,415	5,382	3,170	3,370	23,151	54,275

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
93764004-Small Capital Improvements, Water Treatment	n/a	10,285	0	7,503	1,415	5,382	3,170	3,370	23,151	54,275

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Excess funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	54,275
Other Funding Source	0
Total	**54,275**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**STWTP Filter Media Replacement**
Program	Water Supply - Treatment
Project No.	93284013
Contact	Heath McMahon hmcmahon@valleywater.org

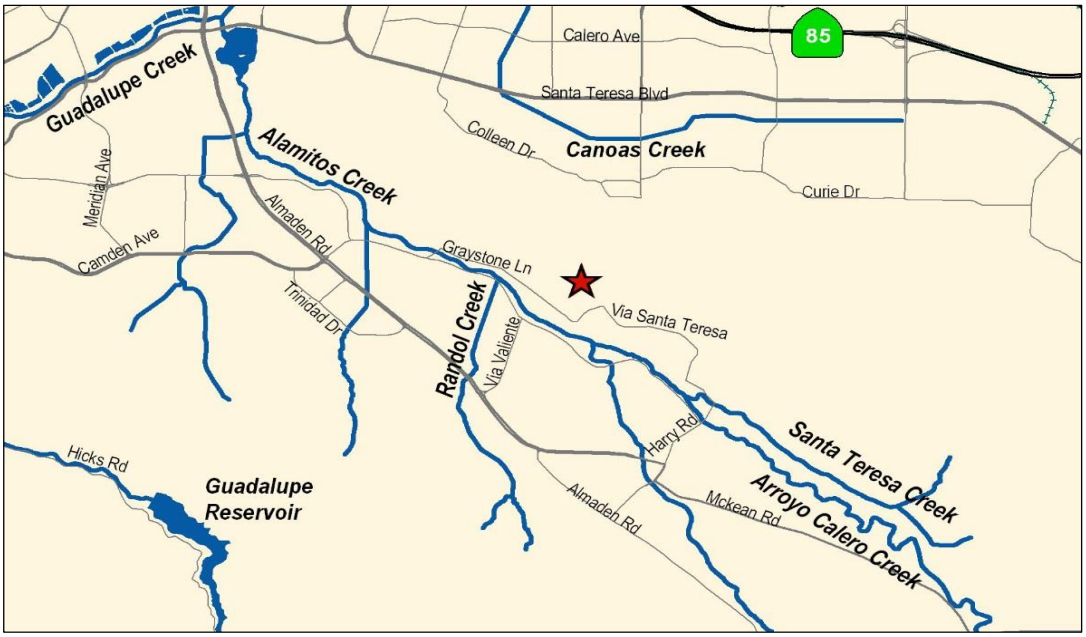
Santa Teresa Water Treatment Plant Filter Media Replacement

PROJECT DESCRIPTION

This project plans, designs and constructs improvements to the Santa Teresa Water Treatment Plant (STWTP) filter basins to ensure that STWTP maintains its operational capacity and continues to effectively serve customers, retailers, and the public with safe and high-quality drinking water. This project will accomplish the following objectives:

- Extend the service life of STWTP filter system.
- Replace the filter media in all twelve filters with sand and granular activated carbon.
- Replace the filter's damaged or deteriorated collection nozzles.

PROJECT LOCATION

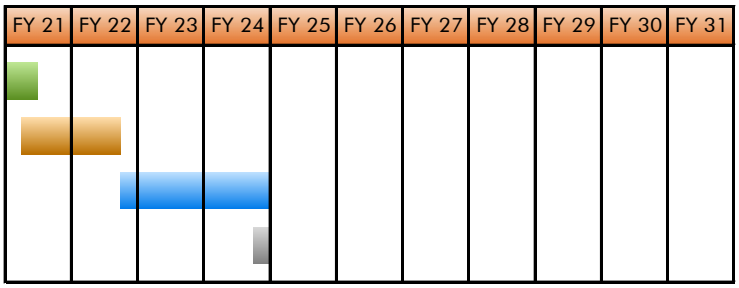


★ Project Location

SCHEDULE & STATUS

June 2019 to June 2024

Phase	Cost
Plan	631
Design	1,177
Construct	7,750
Closeout	75
	9,638



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
93284013-STWTP Filter Media Replacement	23	624	2,813	4,611	1,567	0	0	0	9,638
with inflation	23	624	2,813	4,912	1,728	0	0	0	10,100

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
93284013-STWTP Filter Media Replacement	203	445	1	2,812	4,912	1,728	0	0	0	10,100

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	10,100
Other Funding Sources	0
Total	10,100

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 10-15 Years

Project	**Water Treatment Plant Electrical Improvement**
Program	Water Supply - Treatment
Project No.	93084004
Contact	Heath McMahon hmcmahon@valleywater.org

Motor control center switchboard

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to ensure the safety, operational reliability and maintainability of electrical systems at Penitencia Water Treatment Plant (PWTP) and Santa Teresa Water Treatment Plant (STWTP). The electrical systems will be upgraded to accomplish the following objectives:

- Extend the service life of PWTP's and STWTP's electrical distribution systems
- Improve reliability and reduce maintenance at PWTP and STWTP

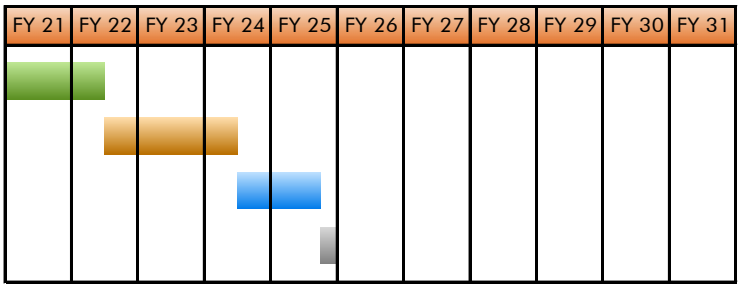
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

March 2020 to April 2025

Phase	Cost
Plan	698
Design	1,359
Construct	8,839
Closeout	75
	10,982



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
93084004-Water Treatment Plant Electrical Improvement	34	615	879	2,323	5,328	1,803	0	0	10,982
with inflation	34	615	879	2,488	5,851	2,049	0	0	11,915

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
93084004-Water Treatment Plant Electrical Improvement	203	446	0	879	2,488	5,851	2,049	0	0	11,915

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	11,915
Other Funding Sources	0
Total	11,915

OPERATING COST IMPACTS

Operating costs will be determined at the conclusion of the design phase.

USEFUL LIFE: 30+ Years

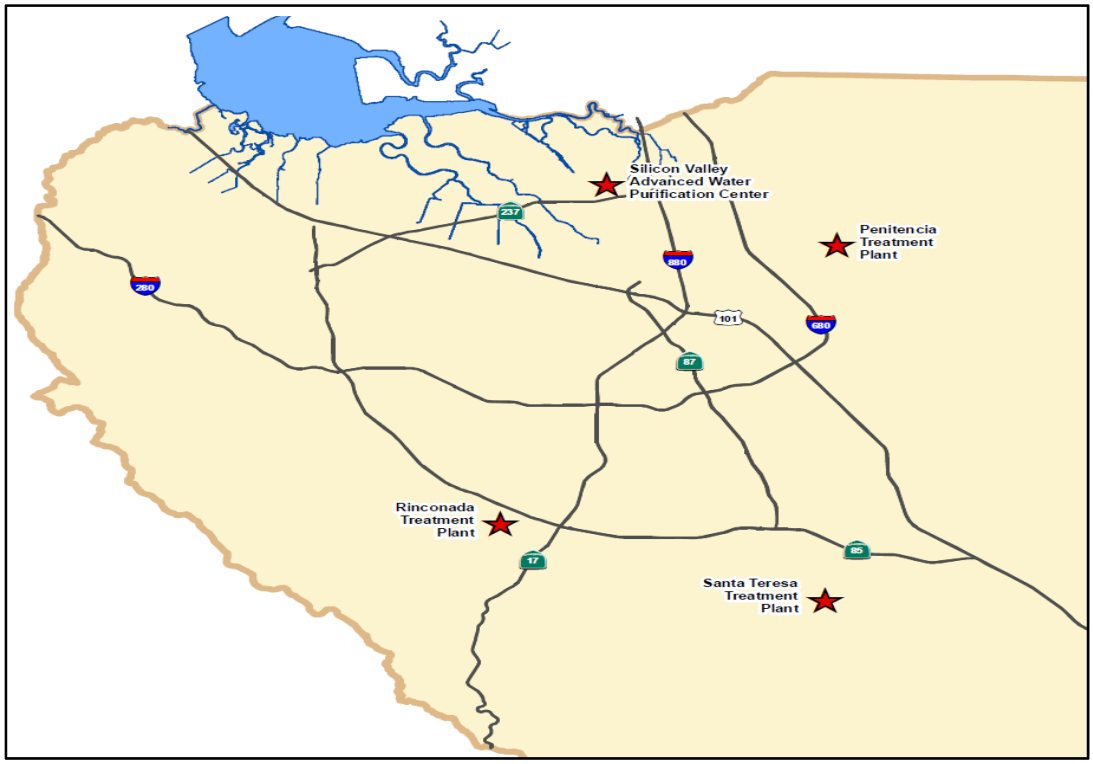
Project	**WTP Implementation Project**
Program	Water Supply - Treatment
Project No.	93044001
Contact	Bhavani Yerrapotu byerrapotu@valleywater.org

This project will implement improvements in all four water treatment facilities operated by Valley Water.

PROJECT DESCRIPTION

This project will develop a comprehensive 30-year implementation plan to determine the projects needed to repair, replace and/or upgrade Valley Water's water treatment plant infrastructure, address the increasingly stringent water quality regulations, and integrate with the recently completed Water Supply Master Plan. The implementation project will conclude with a programmatic environmental impact report. Facilities will include the Rinconada, Santa Teresa, Penitencia Water Treatment Plants and the Advanced Water Purification Center.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2020 to June 2023

Phase	Cost
Plan	7,846
Design	-
Construct	-
Closeout	-
	7,846

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
93044001-WTP Implementation Project	0	1,394	3,276	3,176	0	0	0	0	7,846
with inflation	0	1,394	3,276	3,468	0	0	0	0	8,138

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
93044001-WTP Implementation Project	0	1,394	0	3,276	3,468	0	0	0	0	8,138

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

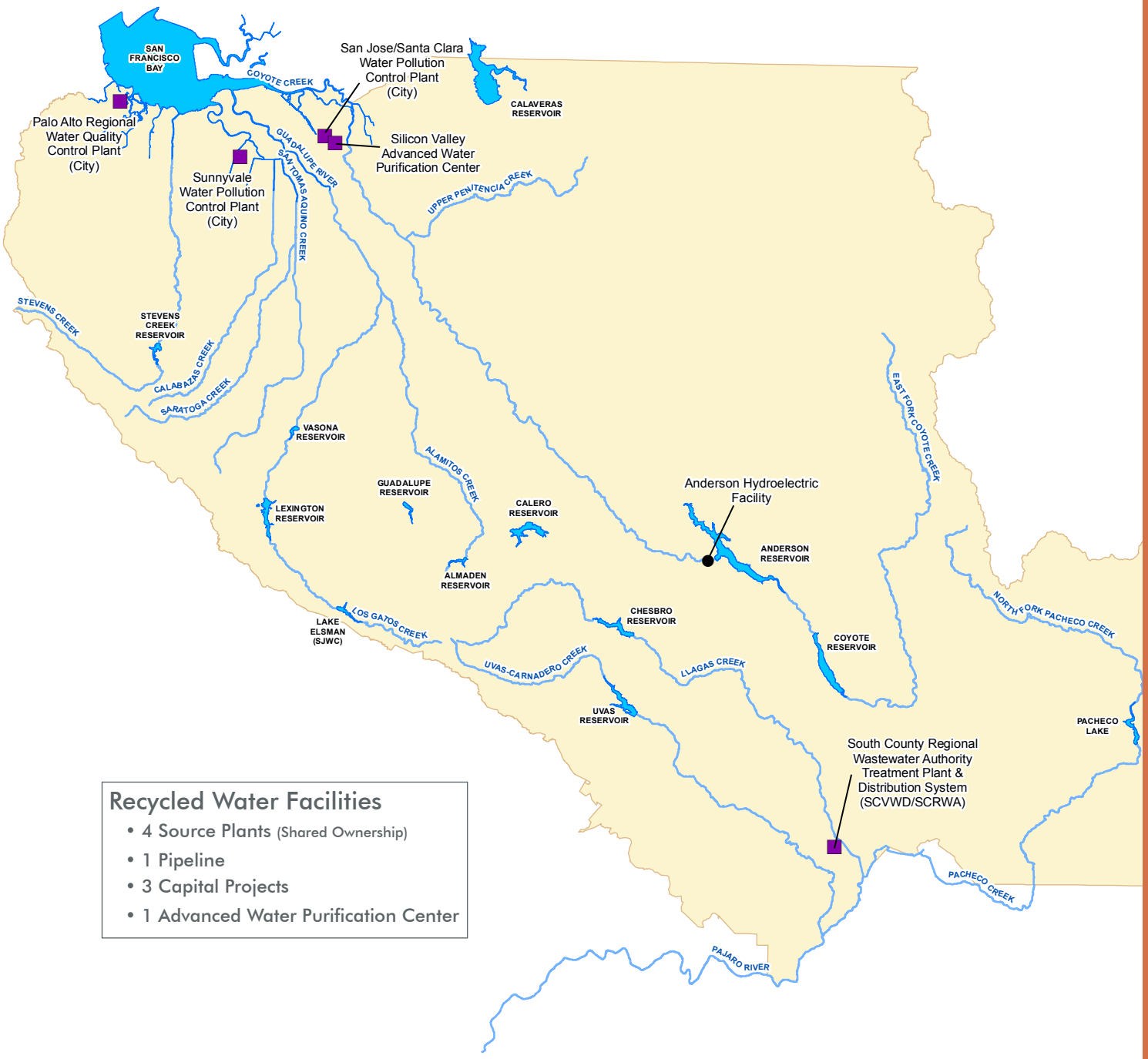
SCVWD Water Utility Enterprise Fund	8,138
Other Funding Sources	0
Total	8,138

OPERATING COST IMPACTS

This project is not anticipated to increase or decrease annual operating costs, as the project is a planning effort that will be used to identify future repair and upgrade projects to Water Treatment Plants. Projects identified through this implementation project will have their own operating cost impacts identified as they come online.

USEFUL LIFE: Not Available

Recycled & Purified Water Facilities



Recycled Water Facilities

- 4 Source Plants (Shared Ownership)
- 1 Pipeline
- 3 Capital Projects
- 1 Advanced Water Purification Center

Project	**Expedited Purified Water Program**
Program	Water Supply – Recycled Water
Project No.	91304001s
Contact	Vincent Gin vgin@valleywater.org

Reverse osmosis membranes used for water purification

PROJECT DESCRIPTION

This project plans, designs, and constructs new infrastructure, proposed in Valley Water's 2012 Water Supply Master Plan, to accomplish the following objectives:

- Expand Valley Water's long-term water supply portfolio.
- Ensure a drought-proof and reliable water supply for Silicon Valley.

Project elements may include, but are not limited to:

- Expansion of the Silicon Valley Advanced Water Purification Center to produce up to an additional 24 million gallons per day of advanced purified water.
- Installation of pipelines to convey advanced purified water to Valley Water's existing groundwater recharge ponds for indirect potable reuse, or to Valley Water's conventional surface water treatment plants for use as raw water augmentation (direct potable reuse).
- Installation of purified water injection wells at strategic locations to improve groundwater basin management.

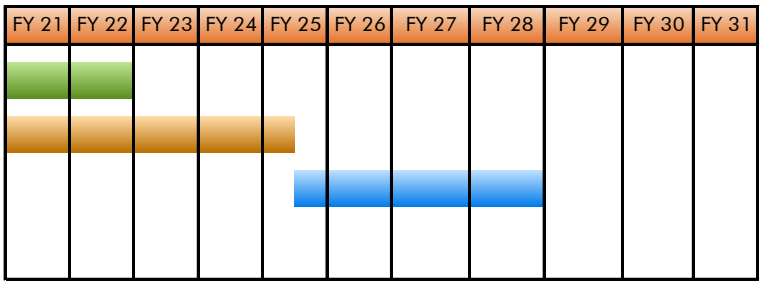
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

April 2015 to June 2028

Phase	Cost
Plan	18,235
Design	51,781
Construct	456,699
Closeout	-
	537,768



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
91304001 - Indirect Potable Water Reuse Projects	21,009	3,800	2,926	26,694	26,624	156,017	152,767	147,417	537,254
with inflation	21,009	3,800	2,926	29,151	30,382	176,239	177,647	176,127	617,282
91284009 - Silicon Valley Advanced Water Purification Center Expansion	479	0	0	0	0	0	0	0	479
with inflation	479	0	0	0	0	0	0	0	479
91384001 - Purified Water Pipelines	35	0	0	0	0	0	0	0	35
with inflation	35	0	0	0	0	0	0	0	35
TOTAL	**21,523**	**3,800**	**2,926**	**26,694**	**26,624**	**156,017**	**152,767**	**147,417**	**537,768**
with inflation	**21,523**	**3,800**	**2,926**	**29,151**	**30,382**	**176,239**	**177,647**	**176,127**	**617,796**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
91304001 - Indirect Potable Water Reuse Projects	25,183	1,412	1,786	1,140	29,151	30,382	176,239	177,647	176,127	617,282
91284009 - Silicon Valley Advanced Water Purification Center Expansion	479	0	0	0	0	0	0	0	0	479
91384001 - Purified Water Pipelines	35	0	0	0	0	0	0	0	0	35
TOTAL	**25,697**	**1,412**	**1,786**	**1,140**	**29,151**	**30,382**	**176,239**	**177,647**	**176,127**	**617,796**

Adjusted Budget includes adopted budget plus a planned budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	617,796
Other Funding Sources	0
Total	**617,796**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: Not Available

Project	**Land Rights - South County Recycled Water Pipeline**
Program	Water Supply – Recycled Water
Project No.	91094001
Contact	Heath McMahon hmcmahon@valleywater.org

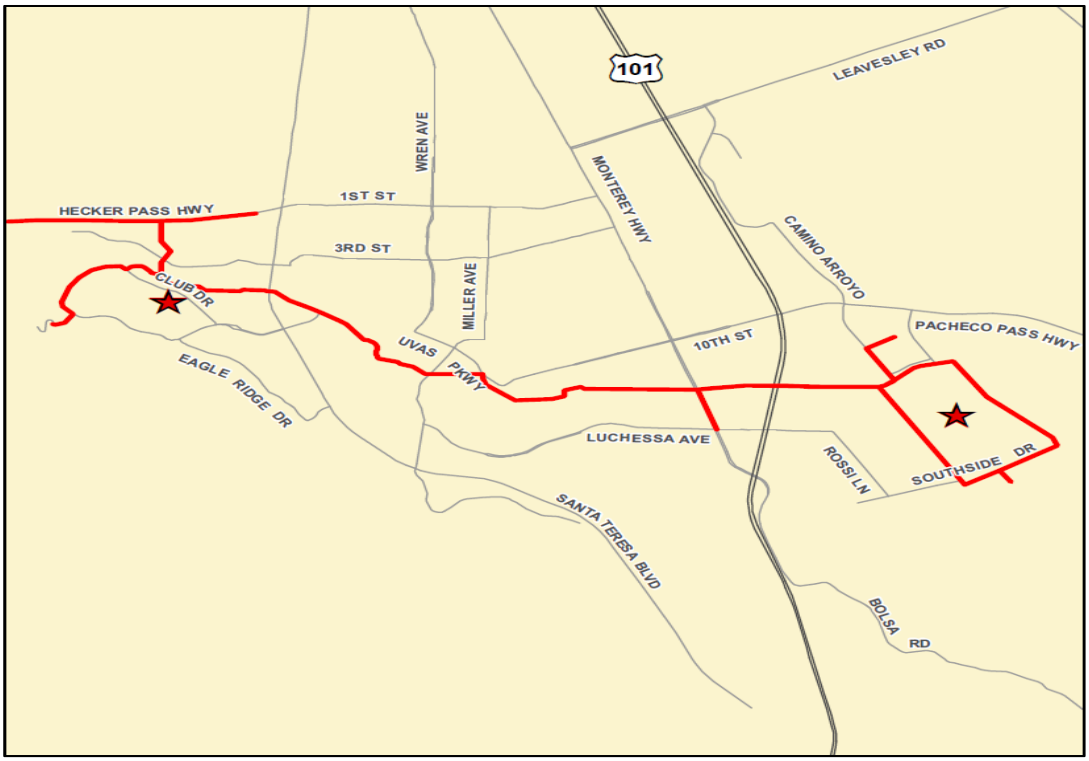
Restricted land access puts recycled water delivery at risk.

PROJECT DESCRIPTION

Valley Water is contractually required to maintain and operate the recycled water pipeline in South County as a part of an agreement with the South County Regional Wastewater Authority (SCRWA). It has been determined that there are insufficient and expired land rights to Valley Water's recycled water pipeline in segments near the Eagle Ridge Golf Course and along Hecker Pass road, which places Valley Water in a precarious legal position. In the event of a pipe failure, Valley Water's rights to legally operate and maintain the recycled water conveyance system may be challenged; thus, our commitment to deliver recycled water to its South County customers is at risk.

Valley Water's ongoing implementation of the SCRWA Recycled Water Master Plan is impetus to affirm the pipeline easements and Valley Water access rights. Delaying resolution of this outstanding issue may cause difficulties in maintaining the pipelines, and will negatively impact our long-term commitment to increase recycled water use in South County.

PROJECT LOCATION

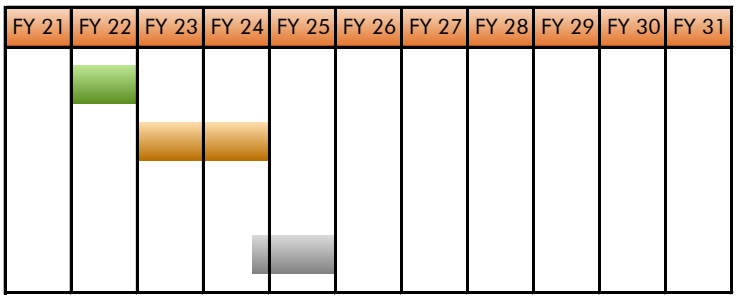


Project Location
Project Location

SCHEDULE & STATUS

July 2020 to June 2025

Phase	Cost
Plan	728
Design	6,072
Construct	-
Closeout	28
	6,828



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
91094001-Land Rights - South County Recycled Water Pipeline	0	0	548	3,120	3,160	0	0	0	6,828
with inflation	0	0	548	3,407	3,606	0	0	0	7,561

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
91094001-Land Rights - South County Recycled Water Pipeline	0	203	203	345	3,407	3,606	0	0	0	7,561

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	7,561
Other Funding Sources	0
Total	7,561

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE:

All land rights obtained will be held in perpetuity.

Project	**South County Recycled Water Pipeline**
Program	Water Supply – Recycled Water
Project No.	91094007s
Contact	Heath McMahon hmcmahon@valleywater.org

Purple recycled water pipe waiting to be laid during construction of the Immediate Term project

PROJECT DESCRIPTION

This project plans, designs, and constructs water recycling systems based on the South County Recycled Water Master Plan accepted in December 2004 to improve system redundancy, reliability, and capacity. The current Master Plan report presents a 20-year capital program for expanding water recycling in South County in three phases: Immediate Term, Short Term, and Long Term:

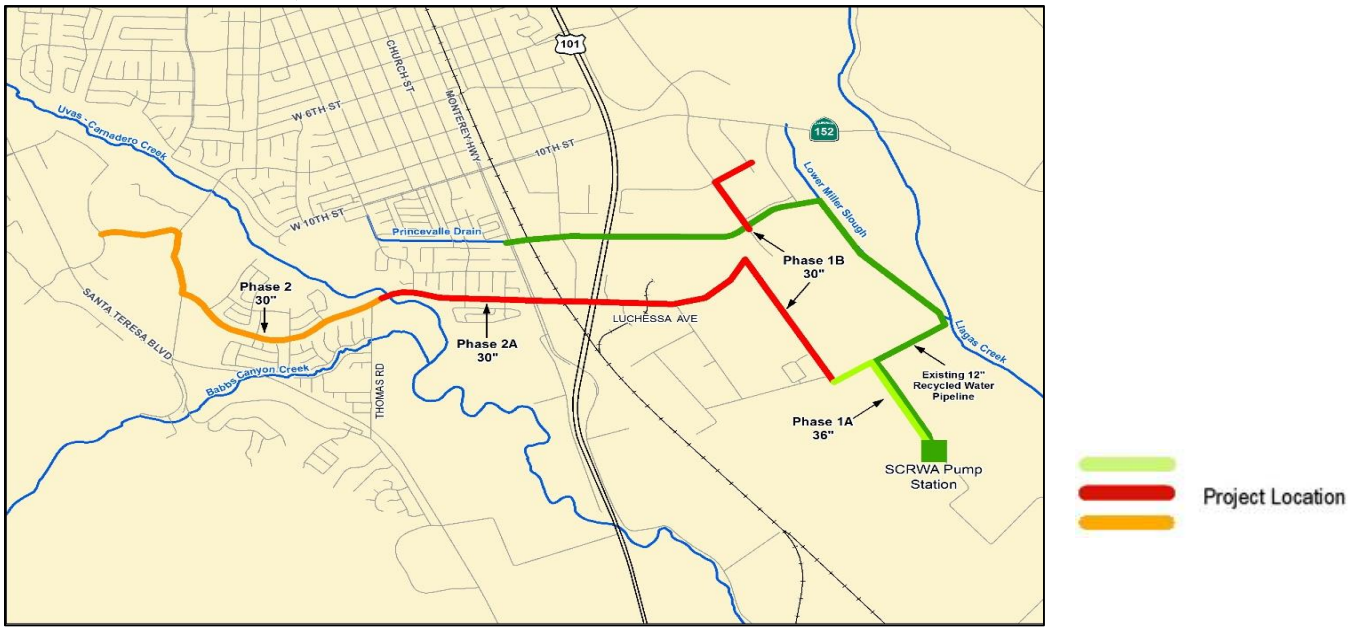
Completed:

- 91094007 Recycled Water South County Masterplan (Immediate Term) which included design and construction of recycled water storage, pumping, and distribution facilities for agricultural use near the South County Regional Wastewater Authority (SCRWA) treatment plant.
- 91094008 Recycled Water South County Masterplan (Short Term 1A), installation of approximately 3,000 feet of 30-inch and 36-inch pipeline.

Currently Underway:

- 91094009 South County Recycled Water Pipeline (Short Term) Phase 1B will construct an additional 18,500 linear feet of pipeline.
- 91094010 South County Recycled Water Pipeline (Short Term) Phase 2 will be completed through cost-sharing opportunities with the City of Gilroy and land developers to construct approximately 3,900 linear feet of 30-inch diameter pipe.
- 91094010 South County Recycled Water Pipeline (Long Term) Phase 1 to be completed through cost-sharing opportunities with the land developers through coordination by the City of Gilroy to construct approximately 9,200 linear feet of 24-inch diameter pipe.

PROJECT LOCATION

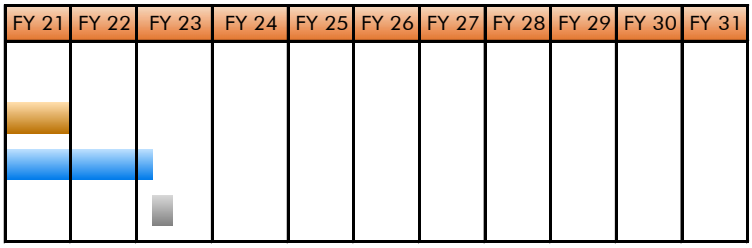


SCHEDULE & STATUS

July 2009 to December 2022

The schedule chart shows Short-Term Phase 1B and Phase 2 projects only. The Immediate-Term and Short-Term Phase 1A projects are complete.

Phase	Cost
Plan	3,049
Design	11,264
Construct	34,018
Closeout	155
	56,288



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
91094007-Recycled Water South County Masterplan - Immediate Term	3,257	0	0	0	0	0	0	0	3,257
with inflation	3,257	0	0	0	0	0	0	0	3,257
91094008-Recycled Water South County Masterplan - Short Term 1A	5,391	0	0	0	0	0	0	0	5,391
with inflation	5,391	0	0	0	0	0	0	0	5,391
91094009-South County Recycled Water Pipeline - Short Term 1B	10,215	9,550	15,377	4,670	0	0	0	0	39,812
with inflation	10,215	9,765	15,377	4,902	0	0	0	0	40,259
91094010-South County Recycled Water Pipeline - Short Term 2	7,481	337	10	0	0	0	0	0	7,828
with inflation	7,481	337	10	0	0	0	0	0	7,828
TOTAL	**26,344**	**9,887**	**15,387**	**4,670**	**0**	**0**	**0**	**0**	**56,288**
with inflation	**26,344**	**10,102**	**15,387**	**4,902**	**0**	**0**	**0**	**0**	**56,735**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
91094007-Recycled Water South County Masterplan - Immediate Term	3,257	0	0	0	0	0	0	0	0	3,257
91094008-Recycled Water South County Masterplan - Short Term 1A	5,391	0	0	0	0	0	0	0	0	5,391
91094009-South County Recycled Water Pipeline - Short Term 1B	19,801	248	69	15,308	4,902	0	0	0	0	40,259
91094010-South County Recycled Water Pipeline - Short Term 2	8,108	0	290	0	0	0	0	0	0	8,108
TOTAL	**36,557**	**248**	**359**	**15,308**	**4,902**	**0**	**0**	**0**	**0**	**57,015**

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately $280,000. Excess funding will be returned to reserves upon completion of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	50,909
South County Regional Wastewater Authority	811
United States Bureau of Reclamation (USBR) ARRA	1,295
United States Bureau of Reclamation (USBR) Title 16	4,000
Total	**57,015**

OPERATING COST IMPACTS

Estimated Valley Water share of the operating and maintenance costs are $8,000 per year for the Immediate-Term phase, beginning in FY07 and an additional $25,000 for the Short-Term Phase 1, beginning in FY19. Increases for Immediate Term are primarily labor costs for operating the new 3mg reservoir and its pump station. Increases for Short Term are labor and materials to maintain the 42,000 feet of new pipeline, exercising valves and cathodic protection.

USEFUL LIFE: Pipelines – 50 Years, Pumps – 20 Years

Flood Protection

Flood Protection Capital Improvements

FLOOD PROTECTION OVERVIEW

Of the approximately 800 miles of creeks in Santa Clara County, Valley Water has jurisdiction over and manages approximately 275 miles to meet the Board's Ends Policy E–3, "There is a healthy and safe environment for residents, businesses and visitors, as well as for future generations." Valley Water's goals are further defined in E-3.1, "Provide natural flood protection for residents, businesses, and visitors" and E-3.2, "Reduce potential for flood damages." The 275 miles of creeks are located in five watersheds: Lower Peninsula, West Valley, Guadalupe, Coyote, and Uvas/Llagas. Valley Water administers an asset management program for its flood protection infrastructure. The program includes a schedule for maintenance and rehabilitation to ensure that each facility functions as intended throughout its useful life.

Fifty years of flood protection management has significantly reduced the intensity and frequency of flooding in Santa Clara County. By 2005, Valley Water had provided flood protection to 93,253 of the 166,526 parcels in the floodplain and another approximately 10,445 have been protected since then.

The voters in Santa Clara County have supported Valley Water's flood protection efforts by approving benefit assessment funding in 1982, 1986, and 1990. Voters also approved three special parcel taxes. In 2000, voters approved the Clean, Safe Creeks and Natural Flood Protection Plan (Clean, Safe Creeks). The Clean, Safe Creeks Plan was replaced by the Safe, Clean Water and Natural Flood Protection Program, which voters approved in 2012 (2012 Safe, Clean Water). In 2020, voters approved the renewal of the Safe, Clean Water Program, which replaced the 2012 Safe, Clean Water Program in entirety. Unlike the first two special parcel taxes, which were set to sunset in 15-years from the date of implementation, the renewed Safe, Clean Water Program will continue until repealed by voters or until the Board determines the funding is no longer needed.

The renewed Safe, Clean Water Program - Fund 26, along with the Watershed and Stream Stewardship (1% ad valorem property tax) - Fund 12, are the two primary funding sources for flood protection projects.

Listed by watershed are the completed and current flood protection capital improvements, moving upstream from the completed downstream work or starting new work on creeks that have not had flood protection work.

Lower Peninsula Watershed

Major Capital Improvements Completed

- San Francisquito Creek from the S.F. Bay to Highway 101 (Safe, Clean Water)
- Adobe Creek from El Camino to West Edith Ave.
- Matadero Creek from Palo Alto Flood Basin to Barron Creek

Major Capital Improvements Identified in the CIP

- Palo Alto Flood Basin Structure Improvements
- Permanente Creek from S.F. Bay to Foothill Expressway (2012 Safe, Clean Water)
- San Francisquito Creek from Highway 101 to Searsville Dam (Safe, Clean Water)

West Valley Watershed

Major Capital Improvements Completed

- Calabazas Creek from Guadalupe Slough to Wardell Road
- San Tomas Creek from Southern Pacific Railroad to Cabrillo Avenue
- Saratoga Creek from San Tomas Creek to Lawrence Expressway

Major Capital Improvements Identified in the CIP

- Sunnyvale East and West Channels (Safe, Clean Water)

Guadalupe Watershed

Major Capital Improvements Completed

- Guadalupe River–Lower from Alviso Marina to Interstate 880
- Guadalupe River–Downtown from Interstate 880 to Interstate 280

Major Capital Improvements Identified in the CIP

- Guadalupe River–Upper, Interstate 280 to Blossom Hill Road (Safe, Clean Water)
- Guadalupe River, Tasman Drive to I-880

Coyote Watershed

Major Capital Improvements Completed

- Coyote Creek from S.F. Bay to Montague Expressway
- Lower Penitencia Creek from Coyote Creek to Tasman Drive
- Lower Silver Creek from Coyote Creek to Cunningham Ave. (Reaches 1-6)
- Cunningham Flood Detention Certtification

Major Capital Improvements Identified in the CIP

- Berryessa Creek from Calaveras Boulevard to Interstate 680 (2012 Safe, Clean Water)
- Berryessa Creek from Lower Penitencia Creek to Calaveras Boulevard (Safe, Clean Water)
- Coyote Creek Montague Expressway to Tully Road (Safe, Clean Water)
- Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks
- Upper Penitencia Creek from Coyote Creek to Dorel Drive (Safe, Clean Water)

Uvas/Llagas Watershed

Major Capital Improvements Completed

- Llagas Creek–Lower from Pajaro River to Buena Vista Avenue
- Uvas Creek

Major Capital Improvements Identified in the CIP

- Llagas Creek-Lower, Capacity Restoration from Buena Vista Avenue to Pajaro River
- Llagas Creek–Upper, Buena Vista Avenue to Llagas Road (Safe, Clean Water)

Multiple Watersheds

Major Capital Improvements Identified in the CIP

- San Francisco Bay Shoreline (Safe, Clean Water)
- Watershed Asset Rehabilitation Program

CIP PLANNING PROCESS AND FINANCIAL ANALYSIS

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a Draft CIP in February.

The Board then authorizes release of the Draft CIP to the public and local municipalities for review, conducts a public hearing, and approves the resolution to adopt the Final CIP in May.

A financial analysis of the Watershed and Stream Stewardship Fund and Safe, Clean Water Fund, the funding sources for flood protection capital improvements, was conducted to determine if there are limitations to funding all of the projects proposed for the FY 2022-26 CIP.

Funding required for portions of several CIP projects is contingent on grants and partnership agreements that are under development and not currently secured. As Valley Water works through the process to secure funding, the project schedules may be adjusted. Projects with unsecured funding include:

- San Francisquito Creek, upstream of Hwy 101
- Upper Llagas, Phase 2 (Reaches 5, 6, 7B, 8, and 14)

Further, many of the flood protection projects under the renewed Safe, Clean Water Program include iey performance indicators (KPIs) for a preferred project, which requires federal funding, and for a local-funding only version of the project, which can be constructed if federal funding is not received.

Operations and Maintenance Costs

It is understood that new capital projects have an impact on future operations and maintenance, and this is included in the financial analysis. Periodically throughout the project, projections of this impact are updated to reflect changes in the project elements.

Significant Project Updates from the Prior Year

Listed here are the changes to projects from the FY 2021-25 Adopted CIP:

Flood Protection Capital Improvements

- The Palo Alto Flood Basin Tide Gate Structure Improvements Project increased in cost by $6.3 million due to the extension of the project schedule by two years as a result of geotechnical recommendations to construct over 2.5 miles of levee trail surface improvements prior to constructing the tide gate structure in order to prevent structural damage to the exsisting levees.

- The San Francisco Bay Shoreline Project EIA 11 increased in cost by $36.3 million due to an increase USACE project construction costs for Reaches 1-3. Also, San Francisco Bay Shoreline, Other EIAs Project increased in cost by $40.8 million. The passing of Measure S for the SCW renewal means that funds for Phase II design and construction are now included in this Project.

- The Lower Berryessa, Lower Penitencia Creek to Calaveras Blvd. Project increased in cost by $22.7 million due to a three year extension in the overall project schedule and increase in construction phase costs.

- The Permanente Creek Flood Protection Project, Bay to Foothill Expwy. increased in cost by $6.1 million due to the discovery of cultural resources and ensuing project delays at the Rancho San Antonio Flood Detention Basin Project.

- The San Francisquito Flood Protection Project has been updated to include costs for the Newell Road Bridge Project element, which is being managed by the City of Palo Alto. The total project cost has increased in cost by $17.7 million due to the increase in right of way and construction phase costs based on assessments by San Francisquito Creek Joint Powers Authority (SFCJPA), of which Valley Water is a member agency.

- The Upper Llagas Flood Protection Projects increased in cost by approximately $48 million due to an increase in the construction cost estimates.

- The Upper Guadalupe River Project (SPRR to Blossom Hill Road R 7-12) increased by $8.7 million due to planned expenditures moved to future years to facilitate an agreement signed between the U.S. Army Corps of Engineers (USACE) and Valley Water on December 30, 2020 to conduct a Flood Risk Management general re-evaluation study.

- The Coyote Creek Flood Protection Project, Montague Expressway to Tully Road, has been updated to reflect that a portion of this project will be funded and constructed as part of the Anderson Dam Seismic Retrofit Project due to expedited flood management measures to coincide with the completion and start of operations of the Anderson Dam Tunnel Project.

The Safe, Clean Water Program

The Renewed Safe, Clean Water Program, approved by voters in 2020, is set to begin in FY 2021-22 and includes the following flood protection projects:

- San Francisquito Creek, SF Bay to Middlefield Road
- Sunnyvale East & West Channels
- Upper Guadalupe River, I-280 to Blossom Hill Road
- Berryessa Creek from Lower Penitencia Creek to Calaveras Boulevard - Phase 3
- Coyote Creek, Montague Expy. to I-280
- Upper Penitencia Creek, Coyote to Dorel Drive
- Llagas Creek-Upper, Buena Vista Avenue to Llagas Road
- San Francisco Bay Shoreline - Design and Partial Construction of EIA 11 and Planning for other EIAs

With the exception of the Berryessa Creek from Lower Penitencia Creek to Calaveras Boulevard - Phase 3, each of these projects were also included in the 2012 Safe, Clean Water Program. Additionally, the following projects were considered complete under the 2012 Safe, Clean Water Program, as the KPIs had been delivered, but are still included in the CIP as they are in the close-out phase:

- Berryessa Creek from Calaveras Boulevard to Interstate 680 (2012 Safe, Clean Water)
- Permanente Creek, San Francisco Bay to Foothill Expy. (2012 Safe, Clean Water)

For more information about the Safe, Clean Water Program visit valleywater.org. Please see Appendix C for the implementation schedule for the Renewed Program.

Flood Protection Capital Improvements

The following table is a project funding schedule for flood protection capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2020-21.

Flood Protection Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
	LOWER PENINSULA WATERSHED										
10394001	Palo Alto Flood Basin Tide Gate Structure Improvements	4,392	83	552	3,062	8,683	8,627	8,663	4,784	-	38,294
10244001s	Permanente Creek, SF Bay to Foothill Expressway	108,572	7,645	178	-	-	-	-	-	-	116,217
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam (E5)	62,751	370	1	12,720	24,300	6,885	-	-	-	107,026
	WEST VALEY WATERSHED										
26074002	Sunnyvale East and West Channels (E2)	35,438	2,033	17,302	-	1,003	14,014	11,970	6,772	260	71,490
	GUADALUPE WATERSHED										
30154019	Guadalupe River Tasman Dr - I-880	1,080	1,838	(1)	2,670	2,365	28,293	29,753	29,912	-	95,911
26154001s	Guadalupe River–Upper, I-280 to Blossom Hill Road (E8)	134,642	-	23,964	562	33	34	36	37	41,873	177,217
26154001	Guadalupe Rv–Upper, Fish Passage Mods	2,651	-	-	-	-	-	-	-	-	2,651
	COYOTE WATERSHED										
26174041	Berryessa Ck, Calaveras-I-680 - Corps	35,566	29	-	-	-	-	-	-	-	35,595
40174004	Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd Phs 1	50,191	-	3,339	-	-	-	-	-	-	50,191
26174043	Coyote Creek, Montague Expressway to Tully Road (E1)	15,036	2,199	2,528	1,598	6,661	11,166	22,382	3,895	-	62,937
40264011	Cunningham Flood Detention Certification	11,806	4	3	28	-	-	-	-	-	11,838
40334005	Lower Penitencia Ck Improvements, Berryessa to Coyote Cks.	11,287	7,745	7,503	230	8,021	628	322	-	-	28,233
40264007s	Lower Silver Creek, I-680 to Cunningham (Reach 4-6)	102,288	167	784	28	55	-	-	-	-	102,538
40324003s	Upper Penitencia Creek, Coyote Creek to Dorel Drive	19,016	3,898	5,038	113	218	2,067	1,599	4,449	8,573	39,933
	UVAS LLAGAS WATERSHED										
50284010	Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	6,947	-	2,763	-	-	-	3,240	3,462	391	14,040
26174051s	Llagas Creek–Upper, Buena Vista Avenue to Llagas Road (E6)	125,315	47,476	4,555	58,292	58,521	32,386	9,435	1,496	-	332,921
	MULTIPLE WATERSHEDS										
00044026s	San Francisco Bay Shoreline (E7)	71,469	48,316	1	24,036	4,666	37,581	4,919	10,344	17,755	219,086
62084001	Watersheds Asset Rehabilitation Program	35,831	3,531	7,809	10,910	2,566	2,646	2,730	2,829	121,531	182,574
	TOTAL	912,689	136,052	76,319	126,537	117,977	144,704	95,323	70,086	263,632	1,867,000

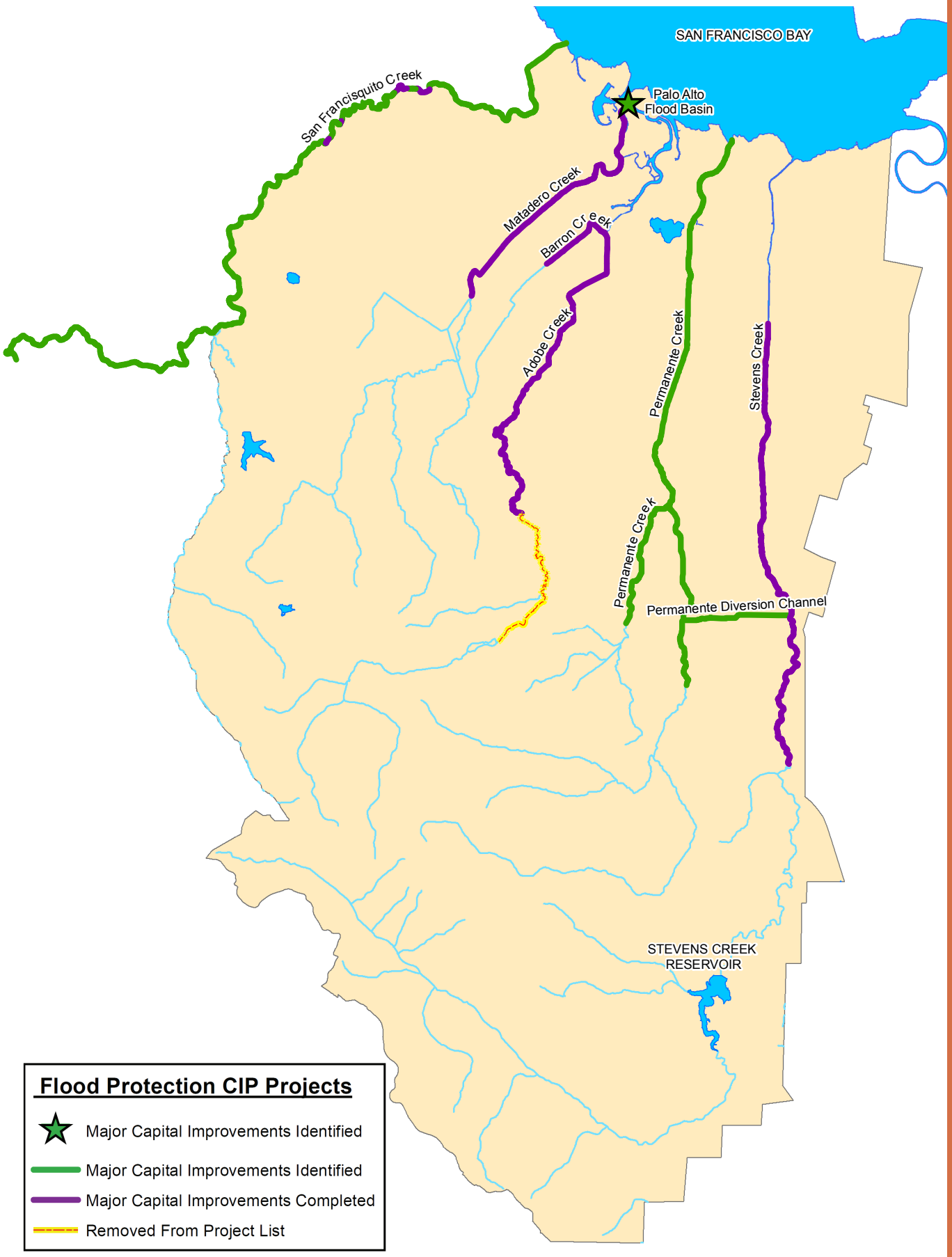
The following table shows funding requirements from each funding source for flood protection capital improvements.

Flood Protection - Funding Sources ($K)

Fund Number	FUND NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
12	Watershed Stream Stewardship Fund	373,615	72,394	25,452	50,848	24,310	74,054	45,101	43,218	186,977	870,517
26	Safe, Clean Water and Natural Flood Protection Fund	539,074	63,658	50,867	75,689	93,667	70,650	50,222	26,868	76,655	996,483
	TOTAL	912,689	136,052	76,319	126,537	117,977	144,704	95,323	70,086	263,632	1,867,000

FY 2020-21 Funds to be reappropriated

Lower Peninsula Watershed



Project	**Palo Alto Flood Basin Tide Gate Structure Replacement**
Program	Flood Protection - Lower Peninsula Watershed
Project No.	10394001
Contact	Rechelle Blank rblank@valleywater.org

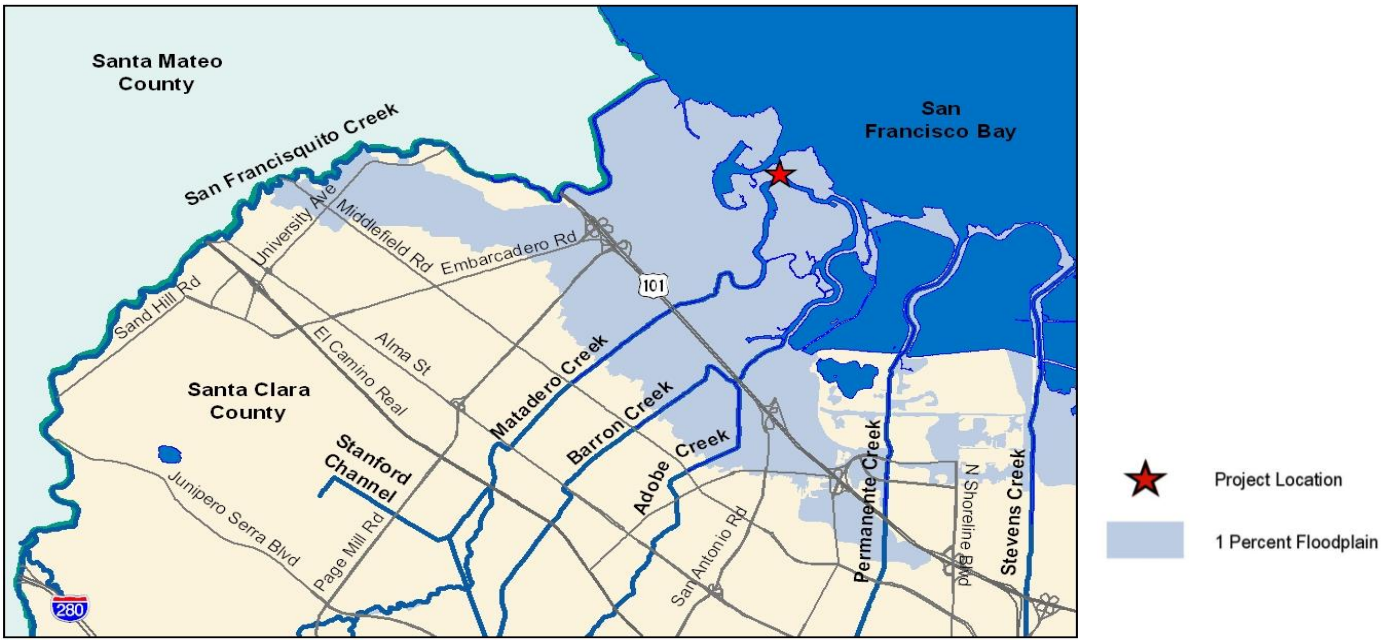
View from the west side of the Palo Alto tide gates facing east

PROJECT DESCRIPTION

This project plans, designs, and constructs a replacement tide gate structure for the Palo Alto Flood Basin to accomplish the following objectives:

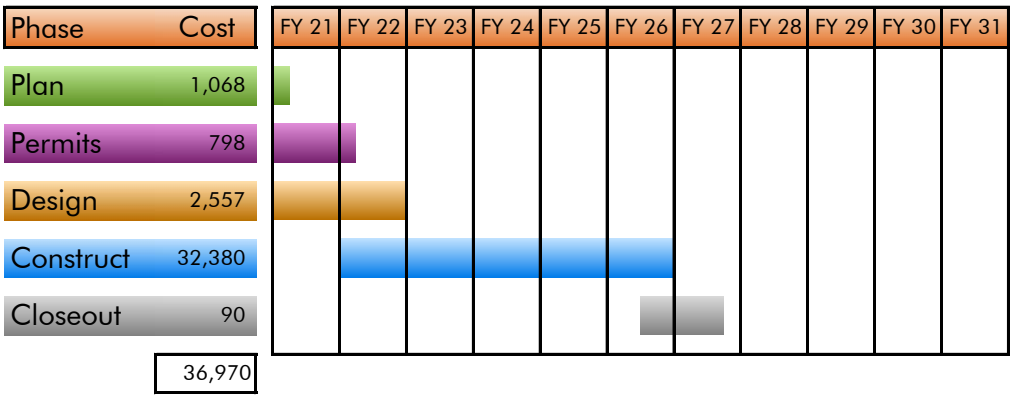
- Prepare an Emergency Action Plan and coordinate with the City of Palo Alto.
- Mitigate potential failure of the existing tide gates structure.
- Reduce the possibility of flooding in lower reaches of Matadero, Adobe, and Barron Creeks.
- Adapt to future sea level rise scenarios.
- Coordinate with the Strategy to Advance Flood protection, Ecosystems and Recreation along San Francisco Bay project, the South Bay Shoreline project, and the Mountain View Ponds project.
- Protect habitat in the Palo Alto Flood Basin and around the work area.

PROJECT LOCATION



SCHEDULE & STATUS

November 2018 to March 2027



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
10394001-Palo Alto Flood Basin Tide Gate Structure Replacement	2,329	1,594	3,614	8,320	8,300	8,300	4,513	0	36,970
with inflation	2,329	1,594	3,614	8,683	8,627	8,663	4,784	0	38,293

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
10394001-Palo Alto Flood Basin Tide Gate Structure Replacement	4,392	83	552	3,062	8,683	8,627	8,663	4,784	0	38,293

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed&Stream Stewardship Fund	38,293
Other Funding Sources	0
Total	**38,293**

OPERATING COST IMPACTS

Operating cost impacts are expected to be around $25,000 per year starting in FY27. Closer analysis will be determined at the completion of the construction phase.

Project	**Permanente Creek, San Francisco Bay to Foothill Expressway**
Program	Flood Protection – Lower Peninsula Watershed
Project No.	10244001s
Contact	Rechelle Blank rblank@valleywater.org

McKelvey Ball Park upon completion in February 2020

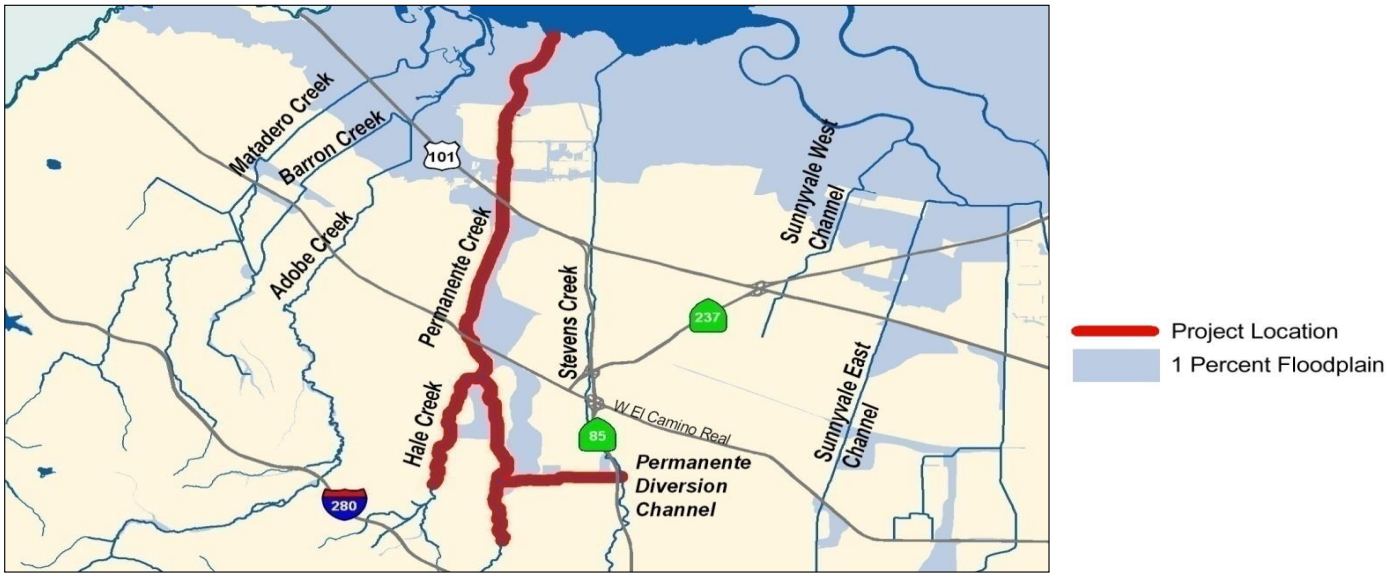
PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along 10.6 miles of Permanente Creek, from San Francisco Bay to Foothill Expressway, Hale Creek from Foothill Expressway to its confluence with Permanente Creek, and the diversion structure between Permanente and Stevens Creeks, to accomplish the following objectives:

- Provide flood protection to 1,664 parcels, including Middlefield Road and Central Expressway.
- Reduce erosion and sedimentation, reduce maintenance costs, and improve safety and stability of the failing channel on Permanente Creek from the San Francisco Bay to Foothill Expressway.
- Provide environmental restoration and enhancement benefits, where opportunities exist.
- Provide recreation enhancements, where opportunities exist.
- Provide natural flood protection by taking a multiple-objective approach.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW). For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION

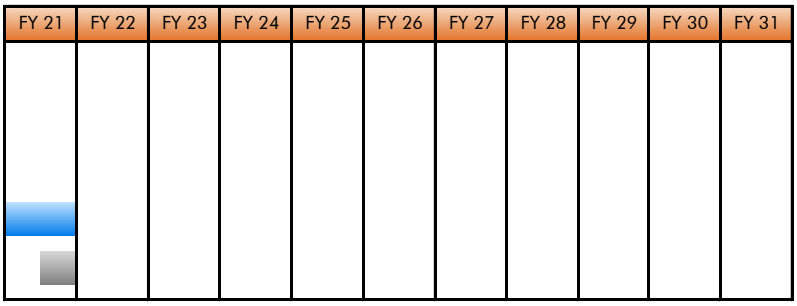


SCHEDULE & STATUS

July 2001 to June 2021

Construction includes multiple contract phases and three years of plant establishment monitoring.

Phase	Cost
Plan	10,049
Permits	3,863
Design	17,641
Construct	84,436
Closeout	50
	116,039



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
10244001-Permanente Ck, Bay to Foothill Expwy – Lower Peninsula Fund	17,363	0	0	0	0	0	0	0	17,363
with inflation	17,363	0	0	0	0	0	0	0	17,363
26244001-Permanente Ck, Bay to Foothill Expwy – Clean, Safe Creeks Fund	88,639	10,037	0	0	0	0	0	0	98,676
with inflation	88,639	10,037	0	0	0	0	0	0	98,676
TOTAL	106,002	10,037	0	0	0	0	0	0	116,039
with inflation	106,002	10,037	0	0	0	0	0	0	116,039

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
10244001-Permanente Ck, Bay to Foothill Expwy – Lower Peninsula Fund	17,541	0	178	0	0	0	0	0	0	17,541
26244001-Permanente Ck, Bay to Foothill Expwy – Clean, Safe Creeks Fund	91,031	7,645	0	0	0	0	0	0	0	98,676
TOTAL	108,572	7,645	178	0	0	0	0	0	0	116,217

Adjusted Budget includes adopted budget plus approved budget adjustments. Allocated funding exceeds total planned expenditures by approximately $178,000. Excess funds will be returned to Fund Reserves at the close of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	17,541
SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	97,653
City of Mountain View	1,023
Total	116,217

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $360,000 per year, beginning in FY21. Increases in operations and maintenance costs include sediment removal at three flood detention sites, and bypass channel inlet and outlet operations and maintenance.

USEFUL LIFE: 30+ Years

Project	**San Francisquito Creek, San Francisco Bay through Searsville Dam (E5)**
Program	Flood Protection – Lower Peninsula Watershed
Project No.	10284007s
Contact	Rechelle Blank rblank@valleywater.org

Upstream face of Pope/Chaucer Street with water surface approximately two feet below the soffit

PROJECT DESCRIPTION

This project provides coordination and support to the San Francisquito Joint Powers Authority, in partnership with the U.S. Army Corps of Engineers, to complete planning and design documents for an approved project alternative on San Francisquito Creek, from San Francisco Bay through Searsville Dam. This project will accomplish the following objectives:

- Provide flood protection.
- Reduce bank erosion and sedimentation-related impacts along San Francisquito Creek.
- Avoid potential adverse impacts on fish and wildlife habitats.
- Minimize impacts to the creek's environmental resources and restore the riparian corridor where feasible.

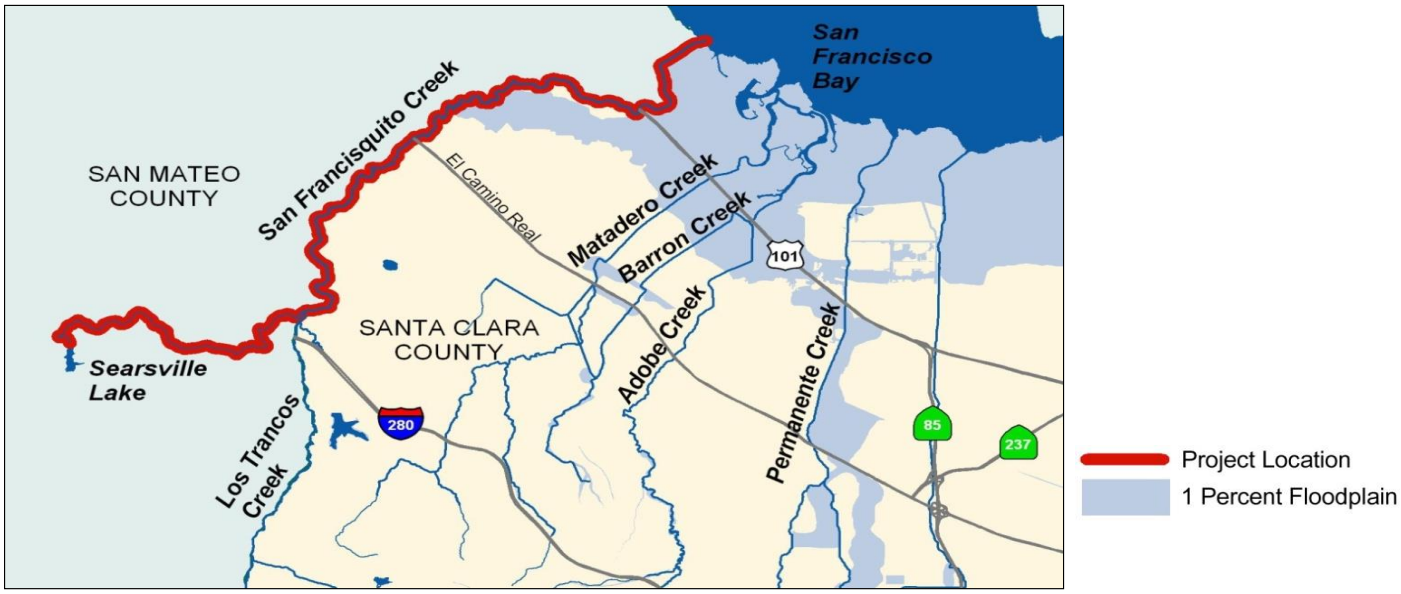
The San Francisquito Flood Protection project will provide 100-year flood protection from San Francisco Bay to Highway 101 and replace two bridges between Highway 101 and Middlefield Road.

This project is accounted for in the following: (10284007 & 10284008 are Completed)

- 26284001 – SF Bay through Searsville Dam
- 26284002 – Construction - San Francisco Bay to Middlefield Rd.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project E5. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

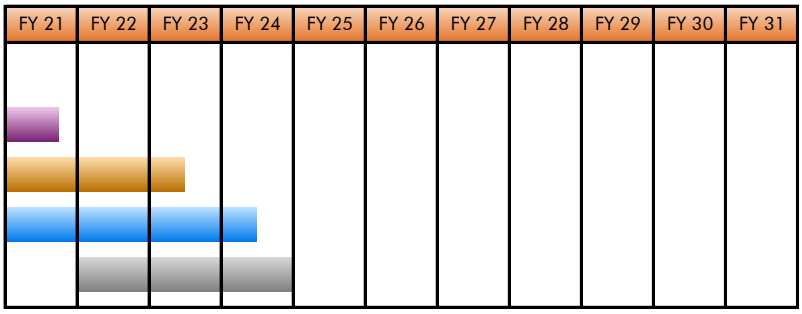
PROJECT LOCATION



SCHEDULE & STATUS

June 2003 to June 2024

Phase	Cost
Plan	4,637
Permits	1,665
Design	21,371
Construct	74,324
Closeout	100
	104,851



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
10284007-San Francisquito Ck, Bay-Searsville Dam	4,064	0	0	0	0	0	0	0	4,064
with inflation	4,064	0	0	0	0	0	0	0	4,064
10284008-San Francisquito Ck, Early Implementation	1,614	0	0	0	0	0	0	0	1,614
with inflation	1,614	0	0	0	0	0	0	0	1,614
26284001-San Francisquito Ck, Bay-Searsville Dam	6,671	111	0	0	0	0	0	0	6,782
with inflation	6,671	111	0	0	0	0	0	0	6,782
26284002-San Francisquito Ck - Construction - SF Bay to Middlefield Rd.	47,991	2,669	12,721	22,775	6,235	0	0	0	92,391
with inflation	47,991	2,669	12,721	24,300	6,885	0	0	0	94,566
TOTAL	**60,340**	**2,780**	**12,721**	**22,775**	**6,235**	**0**	**0**	**0**	**104,851**
with inflation	**60,340**	**2,780**	**12,721**	**24,300**	**6,885**	**0**	**0**	**0**	**107,026**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
10284007-San Francisquito Ck, Bay-Searsville Dam	4,064	0	0	0	0	0	0	0	0	4,064
10284008-San Francisquito Ck, Early Implementation	1,614	0	0	0	0	0	0	0	0	1,614
26284001-San Francisquito Ck, Bay-Searsville Dam	6,782	0	0	0	0	0	0	0	0	6,782
26284002-San Francisquito Ck - Construction - SF Bay to Middlefield Rd.	50,291	370	1	12,720	24,300	6,885	0	0	0	94,566
TOTAL	**62,751**	**370**	**1**	**12,720**	**24,300**	**6,885**	**0**	**0**	**0**	**107,026**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	5,678
SCVWD Safe, Clean Water and Natural Flood Protection Fund	75,840
JPA and Member Agencies (D/S Funding)	5,508
Unsecured Grants and Partnerships (U/S Funding)	20,000
Total	**107,026**
San Francisquito Joint Powers Authority	11,040
County of San Mateo - In-kind Services	1,500
City of Palo Alto/Caltrans Grant (Newell Road Bridge)	8,941

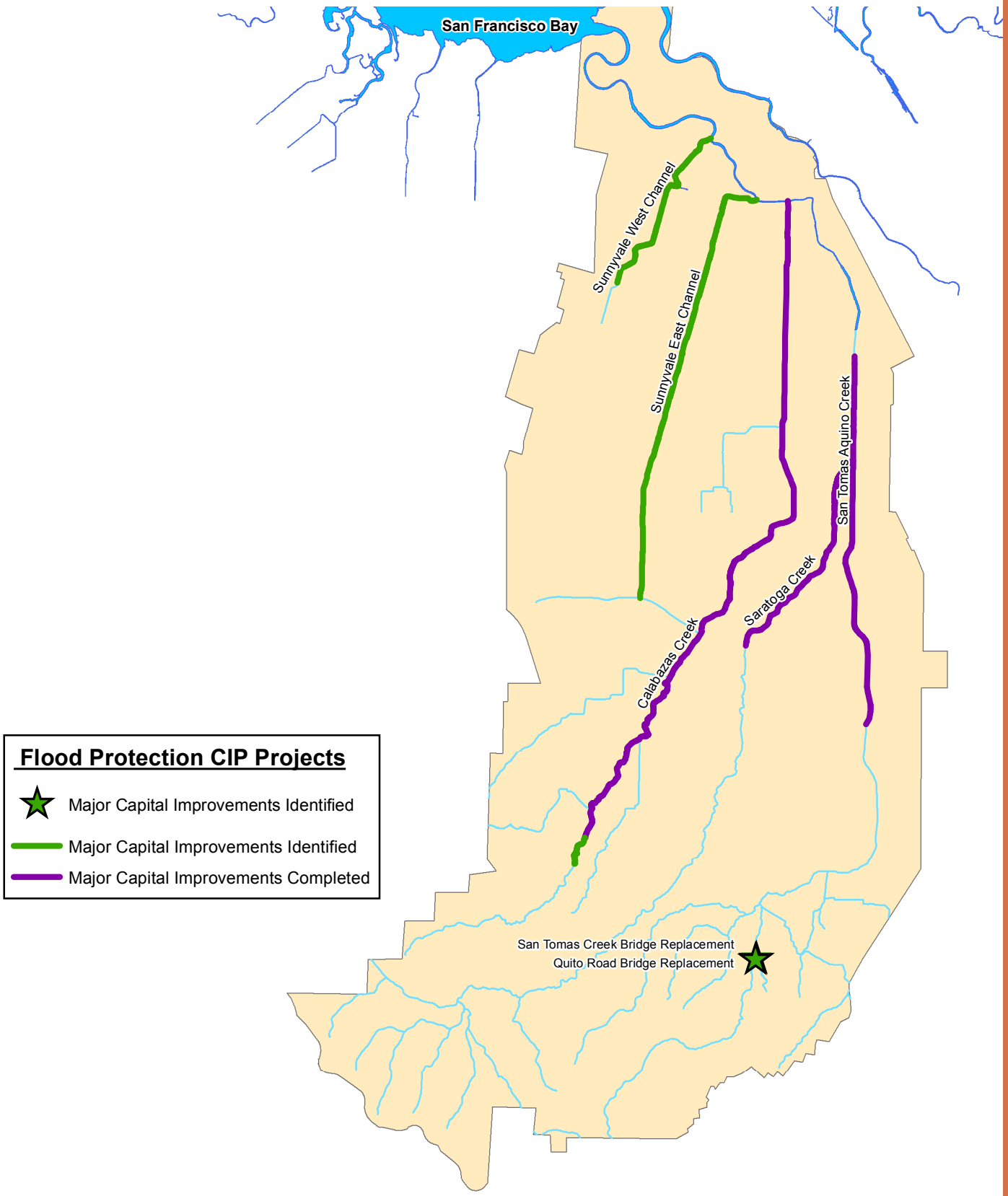
County and Corps participation are for Feasibility Study activities only. Additional funding will be negotiated during subsequent phases.

OPERATING COST IMPACTS

These projects will have an estimated annual operating cost impact of approximately $250,000 beginning in FY24.

USEFUL LIFE: 30+ Years

West Valley Watershed



Project	**Sunnyvale East and West Channels Flood Protection Project (E2)**
Program	Flood Protection – West Valley Watershed
Project No.	26074002
Contact	Rechelle Blank rblank@valleywater.org

Sunnyvale West Channel looking south at Carl Road

PROJECT DESCRIPTION

In the early stages of the project design process, Valley Water project team decided to join both improvement projects into a single flood protection project with a single Environmental Impact Report to reduce construction costs and minimize construction coordination issues between the two channels.

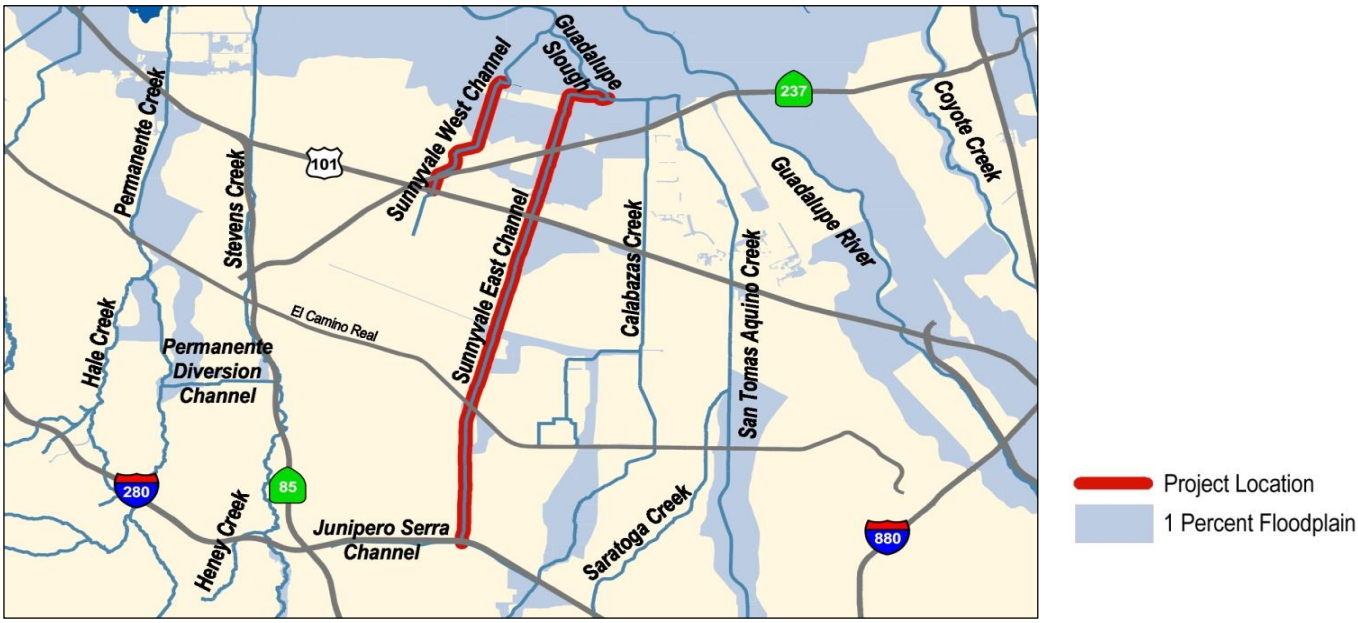
The West Channel extends approximately three miles and upgrades existing channel capacity to provide 1% (or 100-year) riverine flood protection for 47 acres of highly valuable industrial lands. The East Channel extends approximately 6.4 miles and upgrades existing channel capacity to provide 1% riverine flood protection for 1,618 parcels. Both projects decrease channel turbidity and sediment by repairing erosion sites, thereby improving water quality.

- Provides 1% flood capacity for approximately 6.5 miles of channel along Sunnyvale East and approximately three miles of channel along Sunnyvale West within the City of Sunnyvale, protecting 1,618 properties (Sunnyvale East) and 47 acres (11 properties) of industrial land (Sunnyvale West).
- Improves stream water quality by providing erosion control measures to decrease sediment and turbidity.
- Identifies opportunities to integrate recreation improvements with the City of Sunnyvale and others as appropriate.

The Sunnyvale East and Sunnyvale West Channels were originally identified as separate projects. In order to improve efficiency by combining efforts, the planning, design and construction phases for both projects will be performed as a single effort.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW) Project E2. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

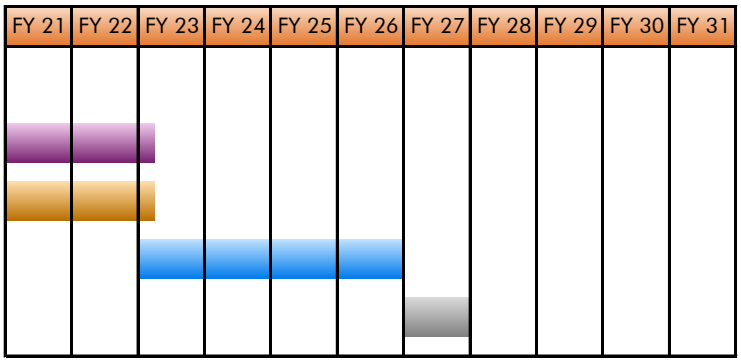
PROJECT LOCATION



SCHEDULE & STATUS

March 2006 to June 2027

Phase	Cost
Plan	5,770
Permits	1,354
Design	12,660
Construct	49,174
Closeout	200
	69,242



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26074002-Sunnyvale East and West Channels Flood Protection Project (E2)	19,352	817	3,272	14,450	13,450	11,400	6,301	200	69,242
with inflation	19,352	817	3,272	15,033	14,014	11,970	6,772	260	71,490

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
26074002-Sunnyvale East and West Channels Flood Protection Project (E2)	35,438	2,033	17,302	0	1,003	14,014	11,970	6,772	260	71,490

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

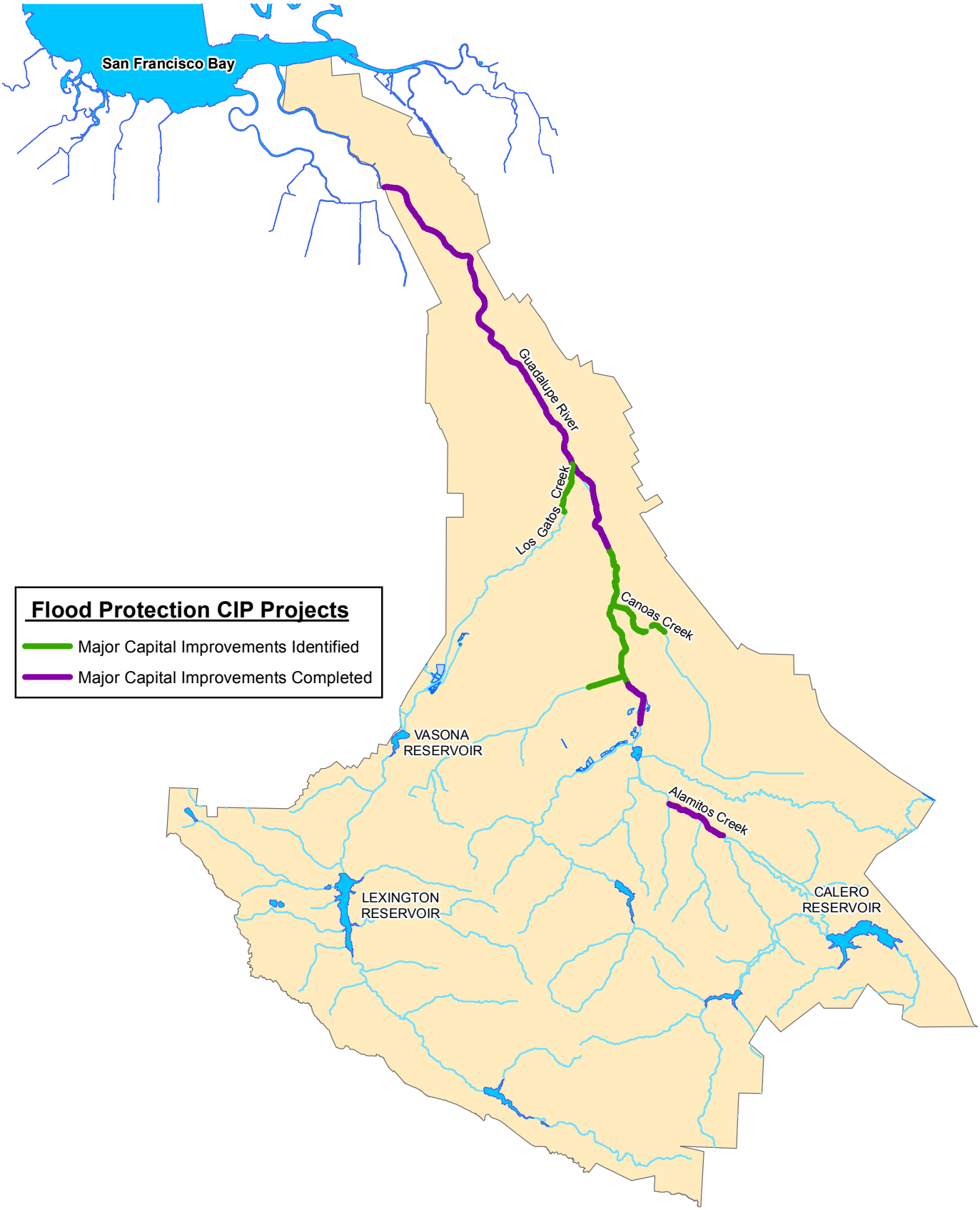
SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	71,490
Other Funding Source	0
Total	71,490

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $210,000 per year based on Operations & Maintenance forecasting, beginning in FY27. Increases in operations and maintenance costs include graffiti removal, vegetation management, rodent abatement, good neighbor maintenance, and encampment cleanup in areas where the City of Sunnyvale's joint use agreements are not applicable.

USEFUL LIFE: 30+ Years

Guadalupe Watershed



Project	**Guadalupe River Tasman Dr - I-880**
Program	Flood Protection - Guadalupe Watershed
Project No.	30154019
Contact	John Bourgeois jbourgeois@valleywater.org

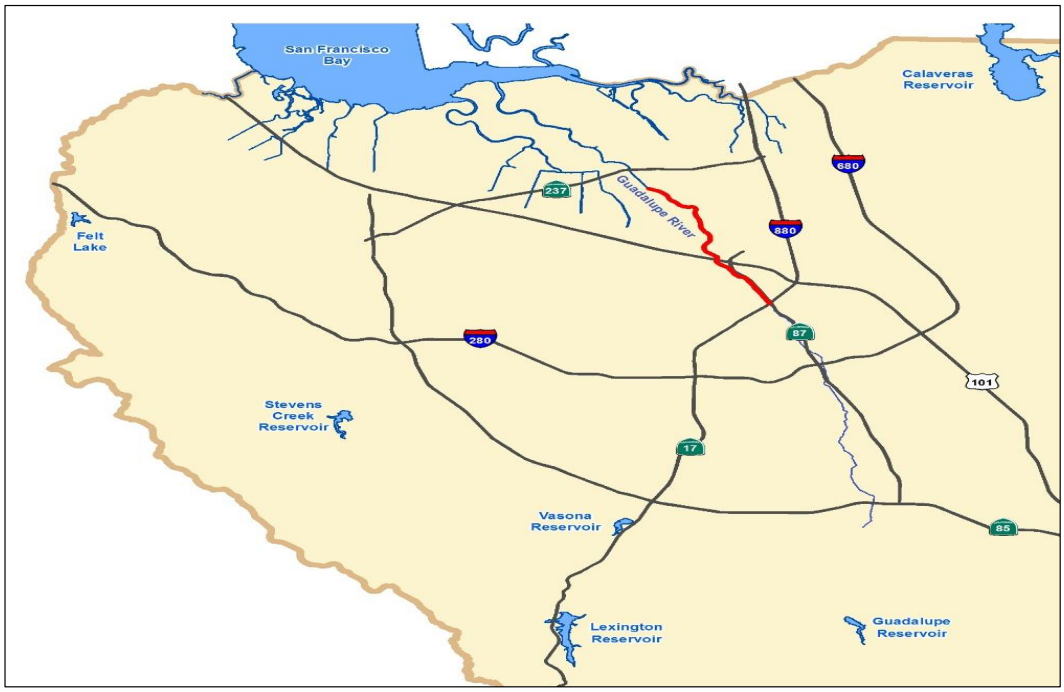
East bank of the Guadalupe River, looking upstream toward Trimble Road

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along the Guadalupe River from Tasman Drive to Interstate 880 to restore the 100-year flood conveyance capacity. The project will accomplish the following objective:

- Restore designed level of service along a portion of the Guadalupe River to provide 1% flood protection.

PROJECT LOCATION

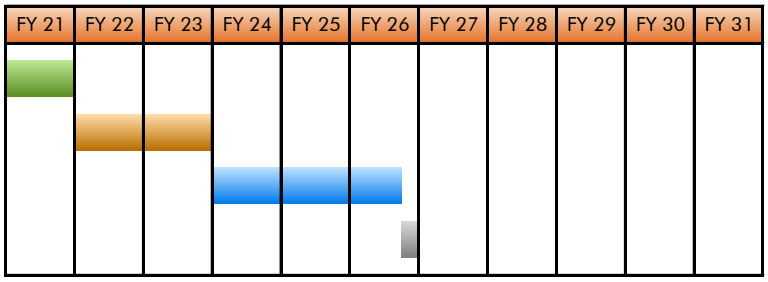


Project Location

SCHEDULE & STATUS

March 2019 to June 2026

Phase	Cost
Plan	2,468
Design	5,077
Construct	79,933
Closeout	50
	87,737



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
30154019-Guadalupe River Tasman Dr - I-880	872	2,047	2,669	2,166	25,811	27,061	27,111	0	87,737
with inflation	872	2,047	2,669	2,365	28,293	29,753	29,912	0	95,911

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
30154019-Guadalupe River Tasman Dr - I-880	1,080	1,839	0	2,669	2,365	28,293	29,753	29,912	0	95,911

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	95,911
Other Funding Sources	0
Total	**95,911**

OPERATING COST IMPACTS

Operating cost impacts will be determined during the design phase.

USEFUL LIFE: 30 Years

Project	**Guadalupe River–Upper, Interstate 280 to Blossom Hill Road (E8)**
Program	Flood Protection – Guadalupe Watershed
Project No.	26154001s
Contact	Rechelle Blank rblank@valleywater.org

Flooding from Guadalupe River on Willow Street near the Southern Pacific Railroad Bridge

PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (USACE) to plan, design, and construct improvements along approximately 6 miles of the Guadalupe River, from Interstate 280 to Blossom Hill Road, to accomplish the following objectives:

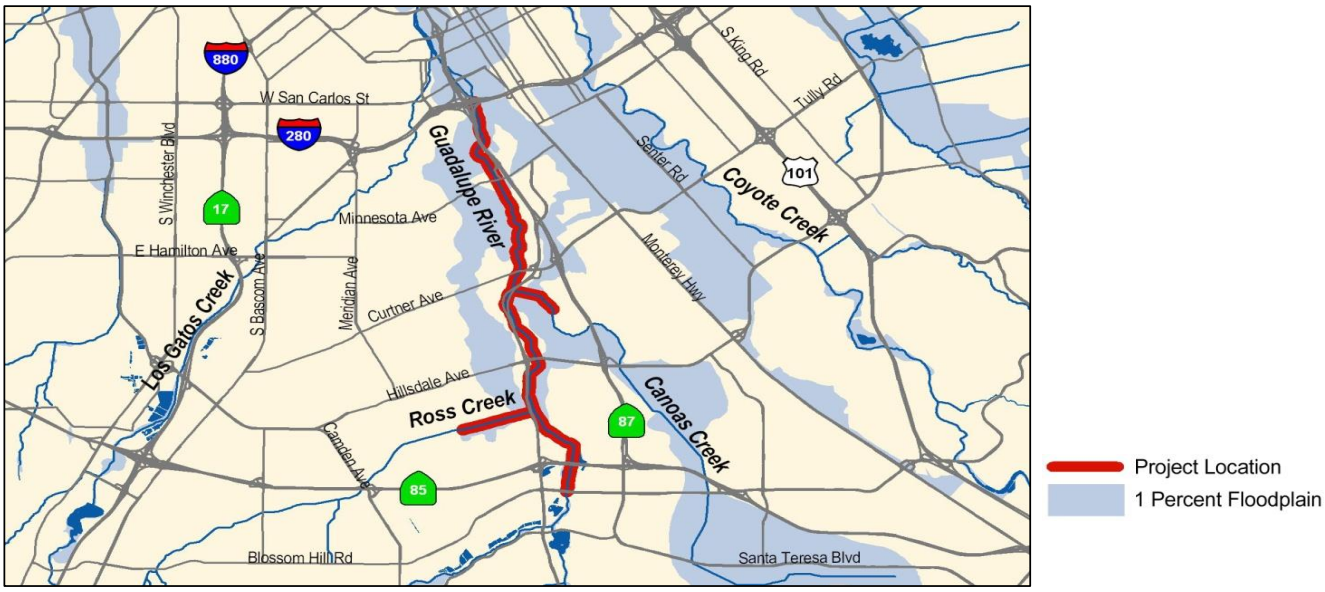
- Provide 1% flood protection to nearly 7,000 parcels along the Guadalupe River, from I-280 to Blossom Hill Road, including portions of Ross Creek and Canoas Creek.
- Provide long-term net gains of 15 acres in riparian forest acreage, quality, and continuity of wildlife habitat, and conditions favoring Chinook salmon and steelhead trout.
- Provide access to an additional 19 miles of suitable upstream spawning and rearing habitat, which would result in significant long-term beneficial impacts on fisheries resources.
- Coordinate with the City of San Jose and the community to establish a continuous maintenance road suitable for trail development between Interstate 280 and Los Alamitos Creek.
- Improve water quality by reducing bank erosion and sedimentation-related impacts along the river and tributaries.
- Address and resolve permit coordination activities and watershed integration issues through the Guadalupe Watershed Integration Working Group.

This project is accounted for in the following:

- 26154001 Fish Passage Modification (Completed)
- 26154002 I-280 to Southern Pacific Railroad Bridge (Reach 6)
- 26154003 Southern Pacific Railroad Bridge to Blossom Hill Road (Reaches 7-12)

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project E8. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION

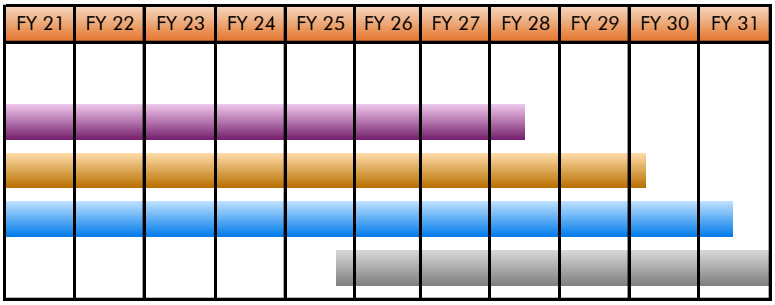


SCHEDULE & STATUS

September 1985 to June 2031

Planning phase is complete. Design and construction of eight individual reaches are being done sequentially.

Phase	Cost
Plan	9,122
Permits	2,537
Design	76,664
Construct	73,503
Closeout	206
	166,003



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY20**	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**Future**	
26154001-Guadalupe Rv—Upr, Fish Passage Mods	2,651	0	0	0	0	0	0	0	2,651
with inflation	2,651	0	0	0	0	0	0	0	2,651
26154002-Guadalupe Rv—Upr, I-280 to SPRR (R6)	33,401	209	1,657	30	30	30	30	2,245	37,632
with inflation	33,401	209	1,657	33	34	36	37	2,997	38,404
26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. (R7-12)	66,061	469	888	850	300	100	8,725	40,440	117,833
with inflation	66,061	469	888	928	342	119	10,634	48,834	128,276
Actuals in closed project numbers	7,887	0	0	0	0	0	0	0	7,887
with inflation	7,887	0	0	0	0	0	0	0	7,887
TOTAL	**110,000**	**678**	**2,545**	**880**	**330**	**130**	**8,755**	**42,685**	**166,003**
with inflation	**110,000**	**678**	**2,545**	**961**	**377**	**155**	**10,671**	**51,831**	**177,218**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY20**	**FY21**		**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**Future**	
26154001-Guadalupe Rv—Upr, Fish Passage Mods	2,651	0	0	0	0	0	0	0	0	2,651
26154002-Guadalupe Rv—Upr, I-280 to SPRR (R6)	34,705	0	1,095	562	33	34	36	37	2,997	38,404
26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. (R7-12)	89,399	0	22,869	0	0	0	0	0	38,877	128,276
Actuals in closed project numbers	7,887	0	0	0	0	0	0	0	0	7,887
TOTAL	**134,642**	**0**	**23,964**	**562**	**33**	**34**	**36**	**37**	**41,874**	**177,218**

FUNDING SOURCES

(in thousands $)

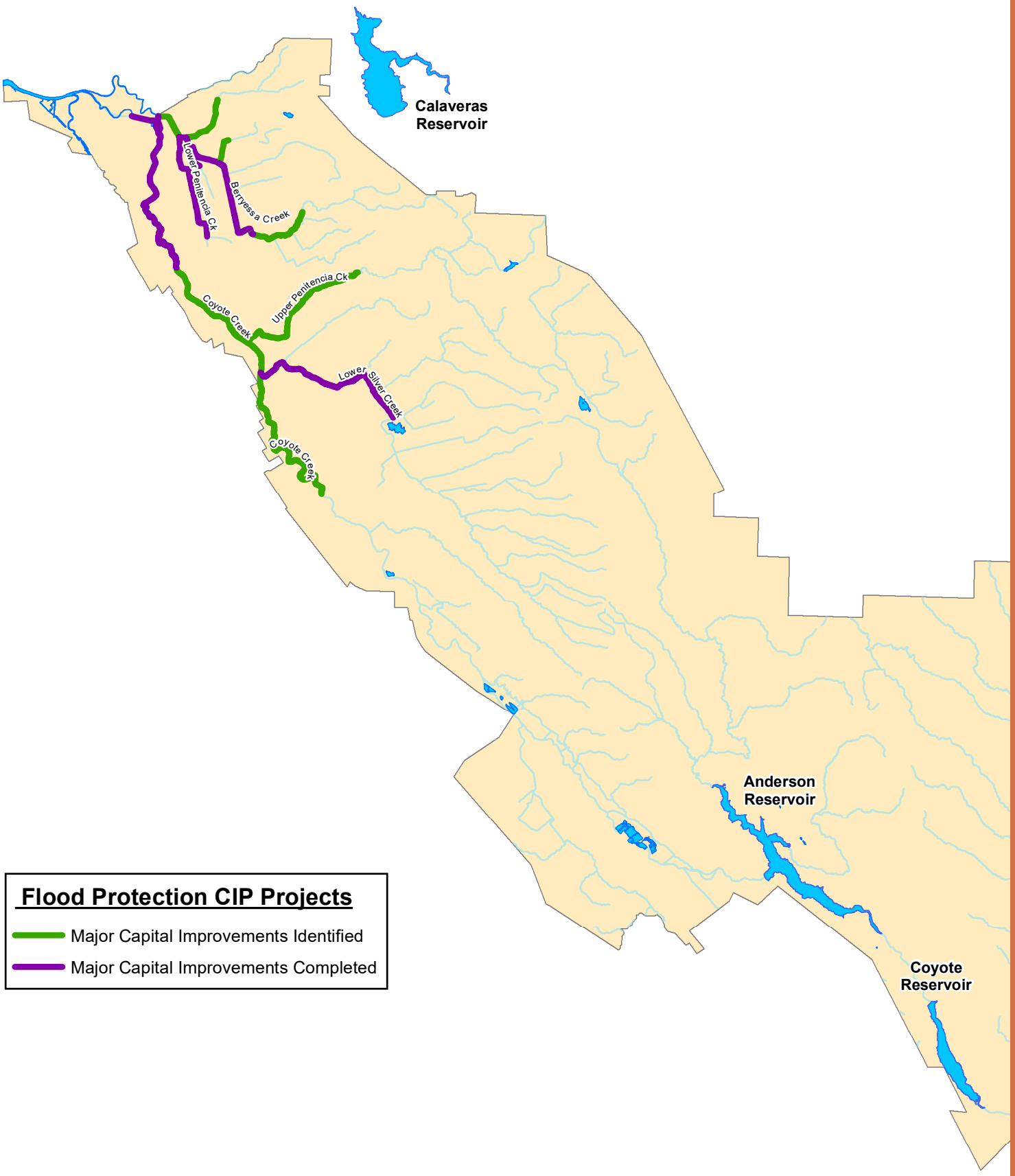
SCVWD Watershed Stream Stewardship Fund	12,000
SCVWD Safe, Clean Water and Natural Flood Protection	130,519
State of California	30,108
City of San Jose	4,591
Total	**177,218**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $360,000 per year, beginning in FY21, for mitigation and monitoring labor and equipment, implementation of adaptive management measures, and operations and maintenance in accordance with the USACE Operations and Maintenance Manual.

USEFUL LIFE: 30+ Years

Coyote Watershed



Flood Protection CIP Projects

- Major Capital Improvements Identified
- Major Capital Improvements Completed

Project	**Berryessa Creek, Calaveras Boulevard to Interstate 680**
Program	Flood Protection – Coyote Watershed
Project No.	26174041s
Contact	Rechelle Blank rblank@valleywater.org

Berryessa Creek near flood stage at Piedmont Road in San Jose

PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (USACE) to plan, design, and construct improvements along approximately two miles of Berryessa Creek, from Calaveras Boulevard to Interstate 680, to accomplish the following objectives:

- Provide 1% flood protection to more than 1,100 homes, businesses, and public buildings.
- Reduce sedimentation and maintenance requirements.
- Mitigate for project impacts.
- Improve stream habitat values.
- Coordinate with the cities of San Jose and Milpitas, and the community to establish a continuous maintenance road suitable for trail development along the Berryessa Creek project.
- Obtain a Letter of Map Revision from the Federal Emergency Management Agency.
- Incorporate Valley Water's Clean, Safe Creeks and Natural Flood Protection Program Objectives.

This project is accounted for in the following:

- 26174041 – Coordination with USACE
- 26174042 – Reimbursable work – Lands, Easements, Rights of Way, Relocations and Disposal

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW). For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION

SCHEDULE & STATUS

January 2000 to June 2021

Phase	Cost
Plan	8,323
Permits	1,561
Design	11,554
Construct	28,697
Closeout	248
	54,585

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26174041-Berryessa Creek, USACE Coordination	22,860	12,735	0	0	0	0	0	0	35,595
with inflation	22,860	12,735	0	0	0	0	0	0	35,595
26174042-Berryessa Creek, LERRDs	17,557	1,433	0	0	0	0	0	0	18,990
with inflation	17,557	1,433	0	0	0	0	0	0	18,990
TOTAL	**40,417**	**14,168**	**0**	**0**	**0**	**0**	**0**	**0**	**54,585**
with inflation	**40,417**	**14,168**	**0**	**0**	**0**	**0**	**0**	**0**	**54,585**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
26174041-Berryessa Creek, USACE Coordination	35,566	29	0	0	0	0	0	0	0	35,595
26174042-Berryessa Creek, LERRDs	18,987	3	0	0	0	0	0	0	0	18,990
TOTAL	**54,553**	**32**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**54,585**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	18,985
State of California	25,600
Department of Water Resources (Prop 1E)	10,000
Total	**54,585**
USACE - In-kind Services	13,600

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $100,000 per year, beginning in FY20, to maintain approximately two miles of new levees and flood walls, and for activities such as vegetation control and graffiti removal.

USEFUL LIFE: 30+ Years

Project	**Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard**
Program	Flood Protection – Coyote Watershed
Project No.	40174004s
Contact	Rechelle Blank rblank@valleywater.org

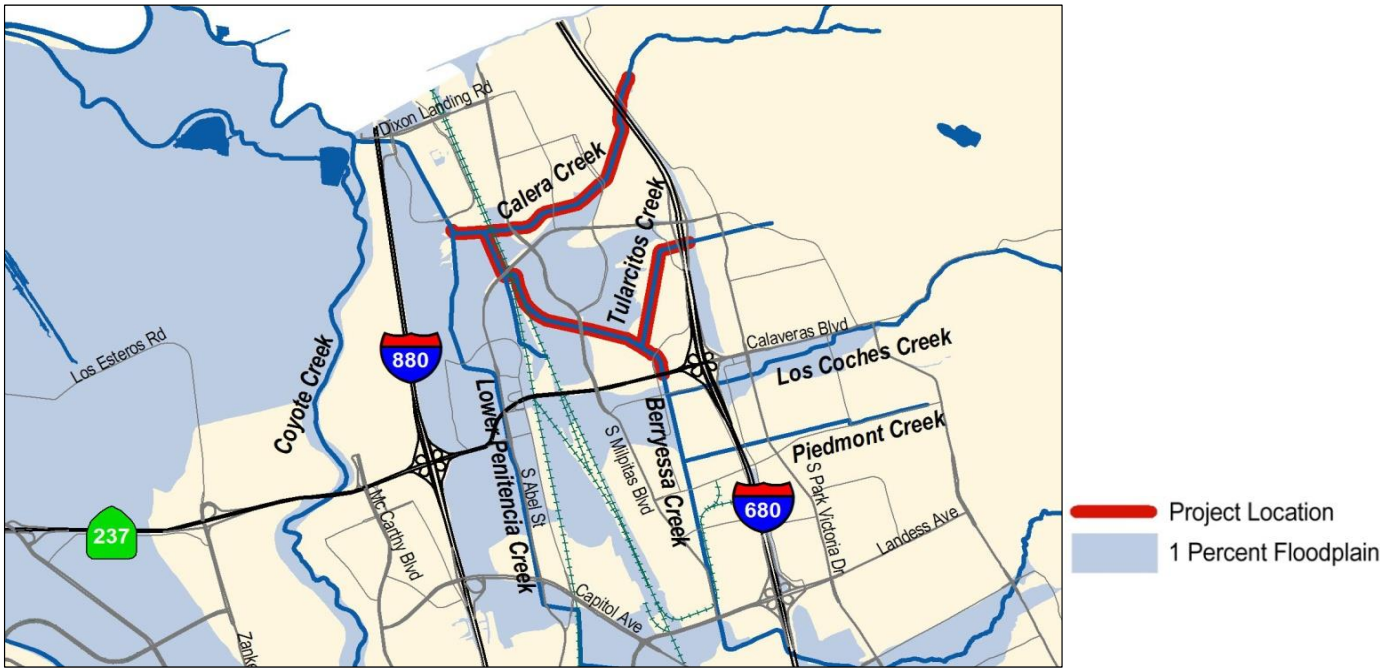
Berryessa Creek upstream of the confluence with Lower Penitencia Creek

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately three miles of Berryessa Creek and its tributaries, from the confluence with Lower Penitencia Creek to Calaveras Boulevard (Phase 1 and 2) and both Calera and Tularcitos Creeks (Phase 3), to accomplish the following objectives:

- Provide 1% flood protection to 1,823 homes, businesses, and public buildings in the surrounding area.
- Improve the structural integrity of the levees.
- Improve maintenance access and safety for Valley Water staff.
- Identify opportunities to integrate recreation inputs consistent with the City of Milpitas' Trail Master Plan.
- Obtain a letter of map revision from the Federal Emergency Management Agency.

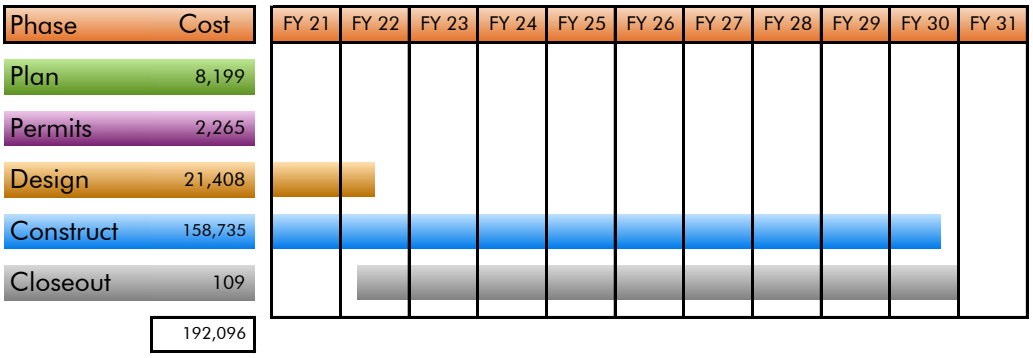
PROJECT LOCATION



SCHEDULE & STATUS

March 2001 to June 2030

Planning phase is complete. Construction includes three phases and three years of plant establishment monitoring.



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
40174004-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 1	46,747	105	105	0	0	0	0	0	46,957
with inflation	46,747	105	105	0	0	0	0	0	46,957
40174005-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 2	60,084	12,706	12,288	810	330	230	0	0	86,448
with inflation	60,084	12,706	12,288	885	377	274	0	0	86,613
40C40397-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 3	0	0	0	0	0	0	1,690	52,401	54,091
with inflation	0	0	0	0	0	0	2,106	65,055	67,161
26C40420-Phase 3 Planning/Design (only)	0	0	0	0	0	0	0	4,600	4,600
with inflation	0	0	0	0	0	0	0	8,194	8,194
TOTAL	106,831	12,811	12,393	810	330	230	1,690	57,001	192,096
with inflation	106,831	12,811	12,393	885	377	274	2,106	73,250	208,926

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
40174004-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 1	50,191	0	3,339	0	0	0	0	0	0	50,191
40174005-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 2	62,075	10,715	0	12,288	885	377	274	0	0	86,613
40C40397-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 3	0	0	0	0	0	0	0	2,106	65,055	67,161
26C40420-Phase 3 Planning/Design (only)	0	0	0	0	0	0	0	0	8,194	8,194
TOTAL	112,266	10,715	3,339	12,288	885	377	274	2,106	73,250	212,160

Adjusted Budget includes adopted budget plus approved budget adjustments. Allocated funding exceeds planned expenditures by approximately $3,234,000. Excess funds will be returned to Fund Reserves at the close of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	197,160
Safe, Clean Water Fund Measure S	8,194
Department of Water Resources (Prop 1E)	15,000
Total	212,160

OPERATING COST IMPACTS

The operating cost impacts of these projects are anticipated to average approximately $210,000 annually starting in FY20. Phase II completion is expected to cost $929,000 in FY21; in FY22, $956,000.

USEFUL LIFE: 30+ Years

Project	**Coyote Creek, Montague Expressway to Tully Road (E1)**
Program	Flood Protection – Coyote Watershed
Project No.	26174043
Contact	Rechelle Blank rblank@valleywater.org

February 2017 flood event, on Rock Springs Drive looking northeast towards Rocksprings Park

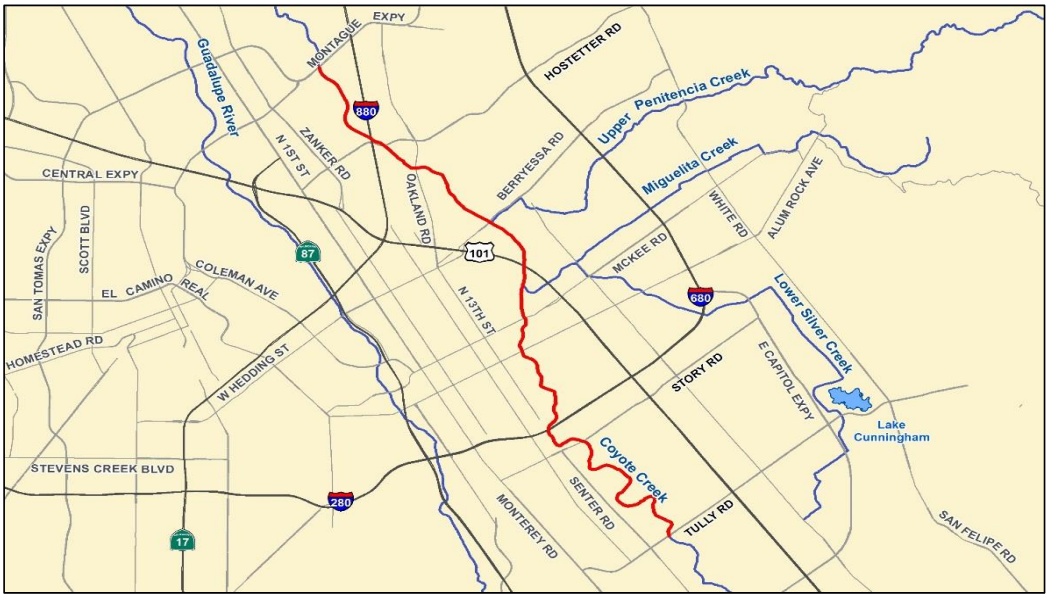
PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately nine miles of Coyote Creek, from Montague Expressway to Tully Road, to accomplish the following objectives:

- To reduce the risk of flooding to homes, schools, businesses, and highways from approximately a 20 year flood event (February 2017 event), from Montague Expressway to Tully Road.
- Improve water quality, enhance stream habitat, and provide recreational opportunities.
- Incorporate aesthetic elements of the Coyote Creek park chain.
- Minimize long-term maintenance needs.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project E1. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION

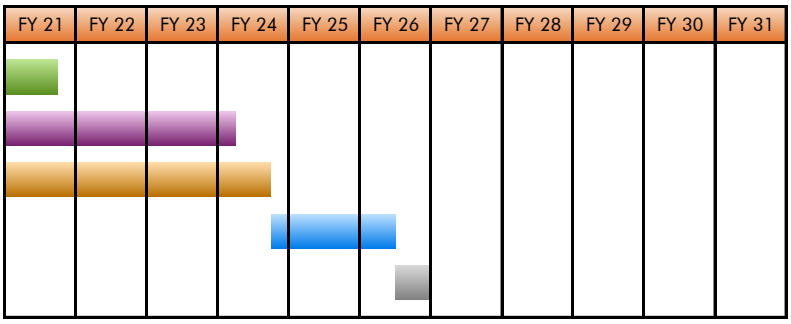


Project Location

SCHEDULE & STATUS

November 2017 to June 2026

Phase	Cost
Plan	9,723
Permits	1,516
Design	15,873
Construct	30,320
Closeout	106
	58,030



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26174043-Coyote Creek, Montague Expressway to Tully Road (E1)	14,234	472	4,126	6,100	10,018	19,780	3,300	0	58,030
with inflation	14,234	472	4,126	6,661	11,166	22,382	3,895	0	62,936

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
26174043-Coyote Creek, Montague Expressway to Tully Road (E1)	15,035	2,199	2,528	1,598	6,661	11,166	22,382	3,895	0	62,936

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	62,936
Other Funding Sources	0
Total	62,936

OPERATING COST IMPACTS

Currently Valley Water has limited and sporadic property rights within the project limits along the creek, and ongoing maintenance costs are relatively small. Project implementation may include acquisition of continuous right of way for construction and future operations and maintenance. This project is expected to increase operating costs by approximately $1,000,000 per year starting in FY27.

USEFUL LIFE: 30+ Years

Project	**Cunningham Flood Detention Certification**
Program	Flood Protection – Coyote Watershed
Project No.	40264011
Contact	Rechelle Blank rblank@valleywater.org

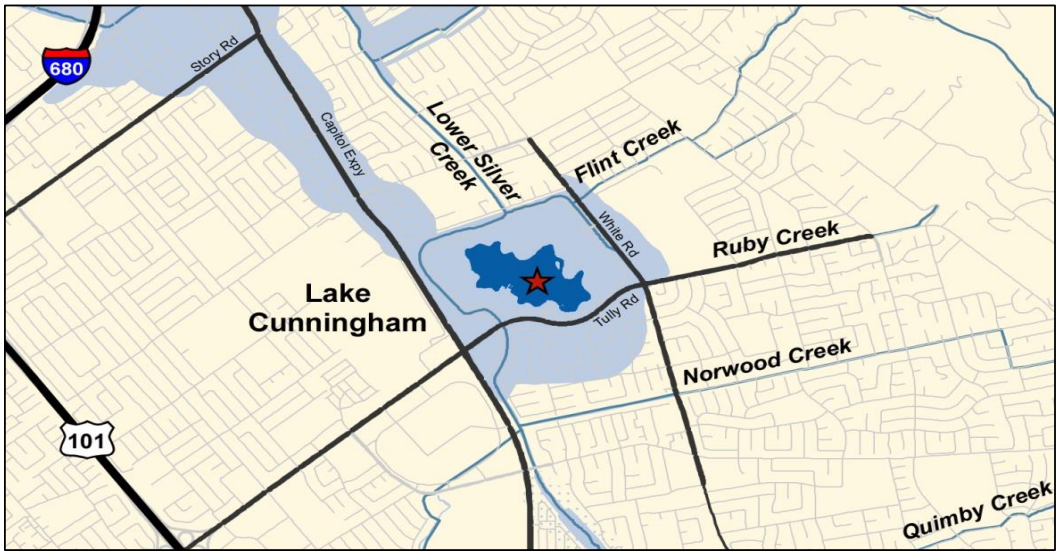
Flooding from Lower Silver Creek in February 1969 at the future site of Lake Cunningham Regional Park

PROJECT DESCRIPTION

This project plans, designs, and constructs final improvements at Lake Cunningham Regional Park (Park) to ensure the site operates as a flood detention facility in accordance with the 1978 agreement with the City of San Jose (City) and to ensure the Lower Silver Creek Project improvements downstream of Cunningham Avenue function as designed. This project will accomplish the following objectives:

- Validate that the flood detention facility can attenuate the volume of water associated with 2,249 cfs below the Park land elevation as stipulated in the 1978 Joint Use Agreement between the City and Valley Water.
- Obtain Federal Emergency Management Agency certification of the flood detention facility and Lower Silver Creek improvements north of the Park to revise the applicable flood insurance rate maps in the Lower Silver Creek 1% floodplain near the north of the Park.
- Update the 1978 Joint Use Agreement between the City and Valley Water to meet the flood detention facility's validated condition.

PROJECT LOCATION



Project Location
1 Percent Floodplain

SCHEDULE & STATUS

August 1999 to June 2022

Phase	Cost
Plan	2,323
Permits	369
Design	2,288
Construct	6,722
Closeout	12
	11,838

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
40264011-Cunningham Flood Detention Certification	11,763	44	31	0	0	0	0	0	11,838
with inflation	11,763	44	31	0	0	0	0	0	11,838

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
40264011-Cunningham Flood Detention Certification	11,806	4	3	28	0	0	0	0	0	11,838

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	8,120
California Department of Water Resources	1,000
Natural Resource Conservation Service	2,718
Total	**11,838**

OPERATING COST IMPACTS

The project is within Valley Water jurisdiction and it is designed to minimize maintenance activities such as sediment removal. Operating costs are expected to be approximately $60,000 per year starting in FY20.

USEFUL LIFE: 30+ Years

Project	**Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks**
Program	Flood Protection – Coyote Watershed
Project No.	40334005
Contact	Rechelle Blank rblank@valleywater.org

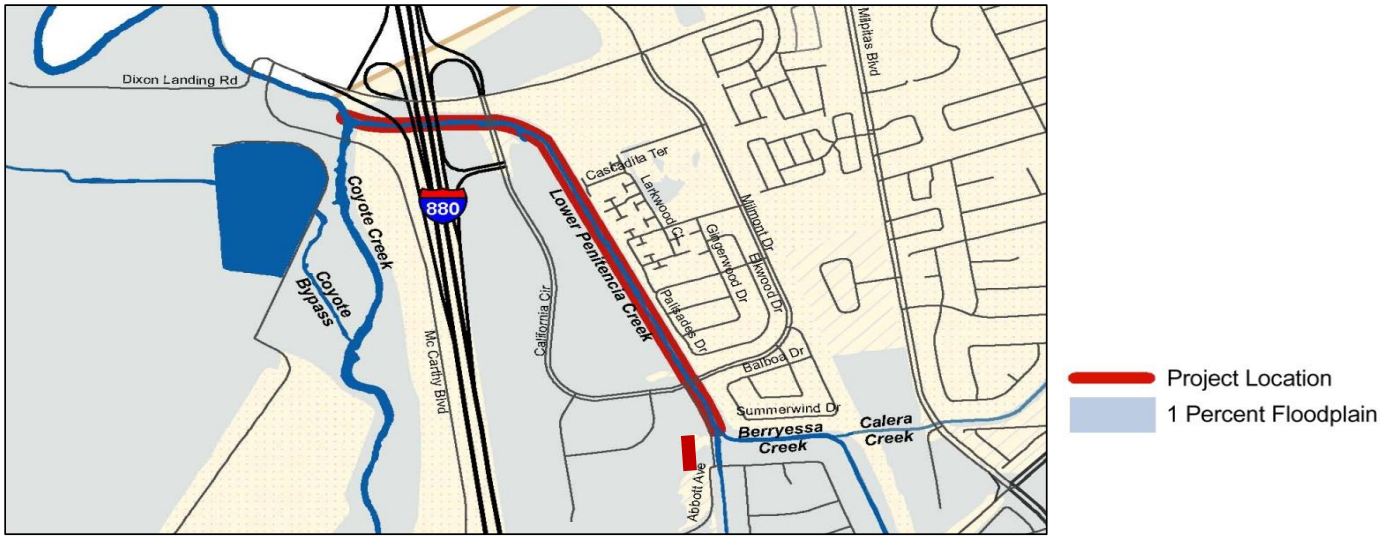
Lower Penitencia Creek, looking downstream from Milmont Drive

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately one mile of Lower Penitencia Creek from the downstream confluence with Coyote Creek to the upstream face of San Andreas Drive, to accomplish the following objectives:

- Convey the Lower Berryessa Creek 1% design flow.
- Meet required water surface elevations at Coyote Creek and Berryessa Creek confluences.
- Minimize the need for seasonal removal of sediment and non-woody vegetation.
- Maintain existing Federal Emergency Management Agency (FEMA) accreditation along the east levee located between California Circle and Berryessa Creek.
- Enable FEMA certification of the improvements.

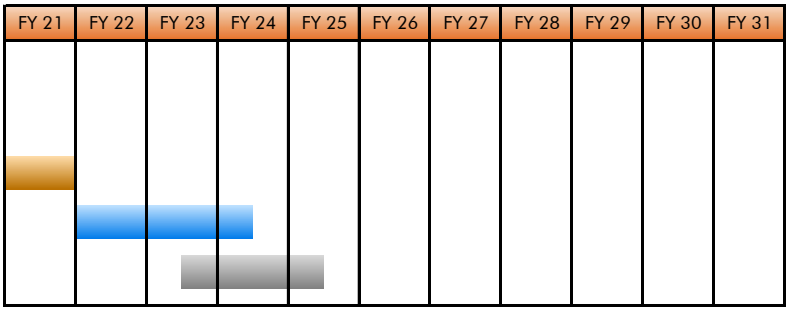
PROJECT LOCATION



SCHEDULE & STATUS

October 2010 to January 2024

Phase	Cost
Plan	3,574
Permits	1,131
Design	5,010
Construct	17,709
Closeout	20
	27,632



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
40334005-Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks	9,651	1,878	7,733	7,550	550	270	0	0	27,632
with inflation	9,651	1,878	7,733	8,021	628	322	0	0	28,233

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
40334005-Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks	11,287	7,745	7,503	230	8,021	628	322	0	0	28,233

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

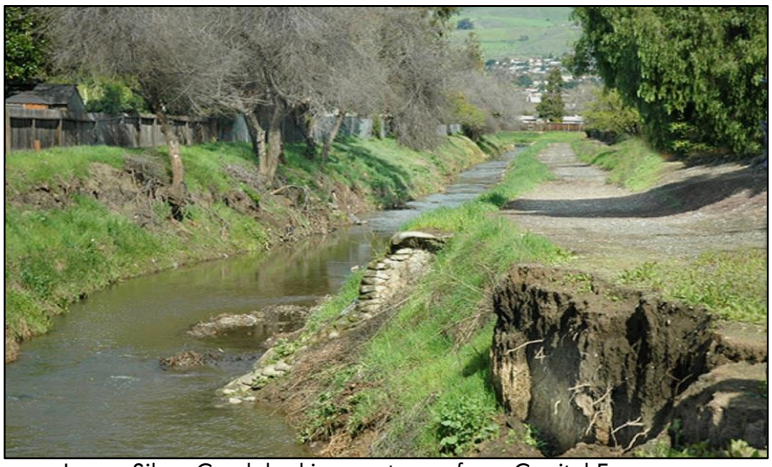
SCVWD Watershed Stream Stewardship Fund	23,233
Department of Water Resources (Prop 1E)	5,000
Total	**28,233**

OPERATING COST IMPACTS

This project is expected to have an operating cost of approximately $215,000 per year, beginning in FY23.

USEFUL LIFE: 50 Years

Project	**Lower Silver Creek, I-680 to Cunningham Avenue (Reaches 4-6)**
Program	Flood Protection – Coyote Watershed
Project No.	40264008s
Contact	Rechelle Blank rblank@valleywater.org



Lower Silver Creek looking upstream from Capital Expressway

PROJECT DESCRIPTION

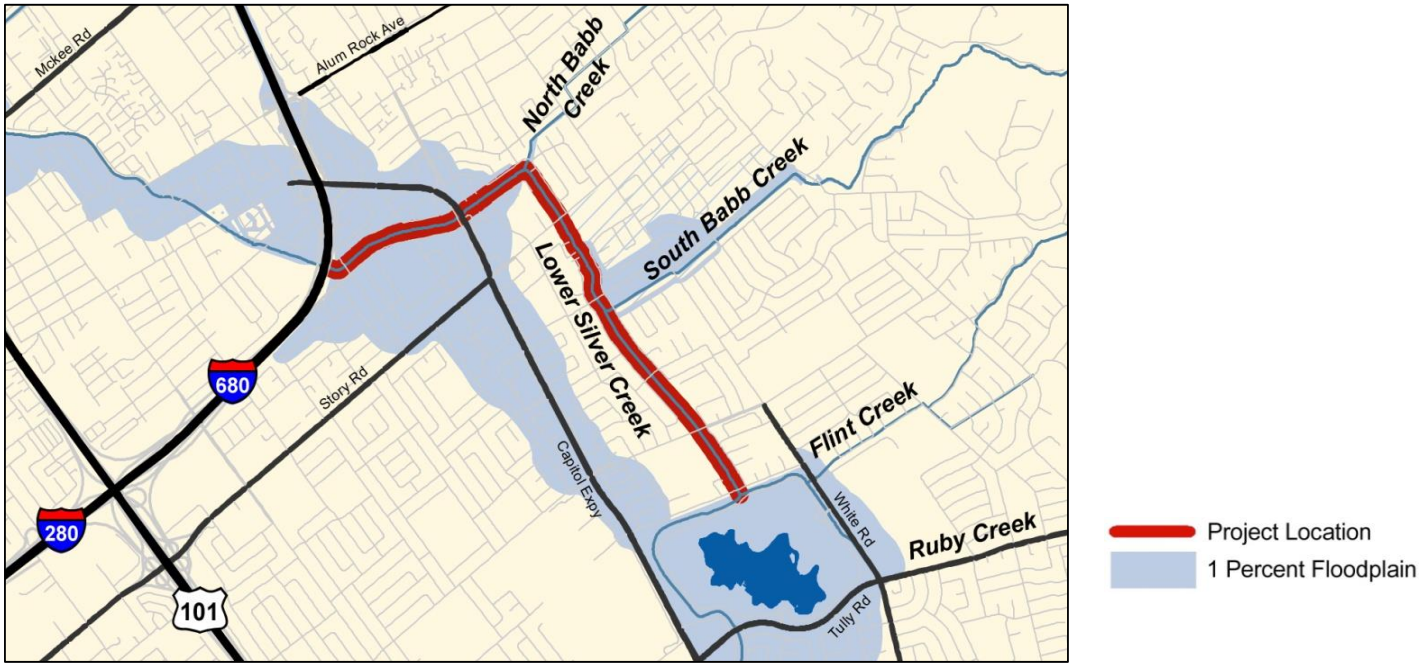
This project is part of a flood control project that partners with the Natural Resource Conservation Service to plan, design and construct improvements along approximately 2.3 miles of Lower Silver Creek, from Interstate 680 to Lake Cunningham. This project includes elements that are eligible for reimbursement from the state and federal governments to accomplish the following objectives:

- Increase flood protection to 3,800 parcels in the surrounding area.
- Allow for on-site mitigation of project impacts, and in some cases enhancement of existing habitat values by increased wetlands and riparian habitat.
- Improve vehicle and pedestrian bridges crossing Lower Silver Creek.
- Develop with the City of San Jose the footprint for a future trail project between Capitol Avenue-Frontage Road and Jackson Avenue that ensures pedestrians and bicyclists may travel beneath the Dobern Pedestrian Bridge.

This project is accounted for in the following:

- 40264007 Lower Silver Creek, I-680 to N. Babb Creek (Reach 4 Planning) - Completed
- 40264008 Lower Silver Creek, I-680 to Cunningham Rd. (Reaches 4-6)
- 40264012 Lower Silver Creek (Reaches 4-6) Reimbursable

PROJECT LOCATION

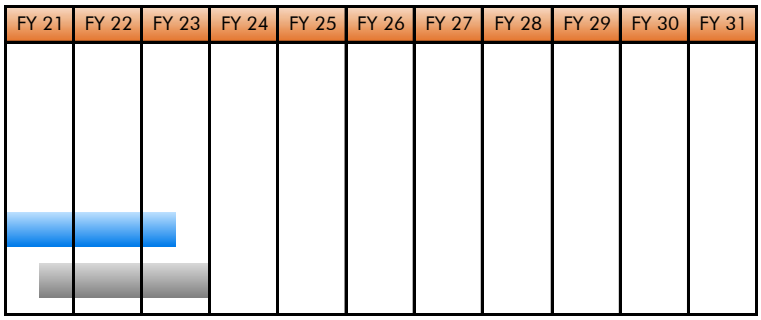


SCHEDULE & STATUS

August 2008 to June 2023

Planning and Design phases are complete

Phase	Cost
Plan	6,308
Permits	220
Design	10,923
Construct	82,182
Closeout	71
	101,773



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY20**	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**Future**	
40264007-Lower Silver Creek, Reach 4 Planning	2,371	0	0	0	0	0	0	0	2,371
with inflation	2,371	0	0	0	0	0	0	0	2,371
40264008-Lower Silver Ck, Nonreimbursable (R4-6)	94,581	2,567	52	50	0	0	0	0	97,250
with inflation	94,581	2,567	52	55	0	0	0	0	97,255
40264012-Lower Silver Creek, LERRDs (R4-6)	1,928	224	0	0	0	0	0	0	2,152
with inflation	1,928	224	0	0	0	0	0	0	2,152
TOTAL	98,880	2,791	52	50	0	0	0	0	101,773
with inflation	98,880	2,791	52	55	0	0	0	0	101,778

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY20**	**FY21**		**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**Future**	
40264007-Lower Silver Creek, Reach 4 Planning	2,371	0	0	0	0	0	0	0	0	2,371
40264008-Lower Silver Ck, Nonreimbursable (R4-6)	97,005	167	24	28	55	0	0	0	0	97,255
40264012-Lower Silver Creek, LERRDs (R4-6)	2,912	0	760	0	0	0	0	0	0	2,912
TOTAL	102,288	167	784	28	55	0	0	0	0	102,538

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately $760,000. Excess funding will be returned to reserves upon completion of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	49,122
State of California	8,740
Natural Resource Conservation Service - ARRA	20,676
California Department of Water Resources	24,000
Total	**102,538**

OPERATING COST IMPACTS

The operating cost impacts are estimated to be $230,000 per year beginning in FY20. Projected operating and maintenance costs include sediment removal, vegetation management, bank protection, graffiti removal, and encampment cleanup.

USEFUL LIFE: 50+ Years

Project	**Upper Penitencia Creek, Coyote Creek to Dorel Drive (E4)**
Program	Flood Protection – Coyote Watershed
Project No.	40324003s
Contact	Rechelle Blank rblank@valleywater.org

Flooding at King Road on Upper Penitencia Creek

PROJECT DESCRIPTION

Initially, this project partnered with the U.S. Army Corps of Engineers (USACE) to plan, design, and construct improvements along approximately 4.2 miles of Upper Penitencia Creek, from the confluence with Coyote Creek to Dorel Drive, to accomplish the objectives listed below. In 2016, the USACE's decided that the multi-objective project which is appropriate for this creek could not be funded under the existing single-purpose authorization. The Project was not included in the USACE's 2017 workplan.

Objectives:

- Provide 1% flood protection to more than 5,000 homes, businesses, and public buildings.
- Improve stream habitat values and fisheries potential.
- Reduce sedimentation and maintenance requirements.
- Identify opportunities to integrate recreation improvements consistent with the City of San Jose's Master Plans, the County's Penitencia Creek Master Plan, and Santa Clara Countywide Trails Master Plan.
- Incorporate Valley Water's Safe, Clean Water and Natural Flood Protection Program objectives.

This project is accounted for in the following:

- 40324003 Initial stages of Planning Phase through FY18
- 26324001 Safe, Clean Water Program

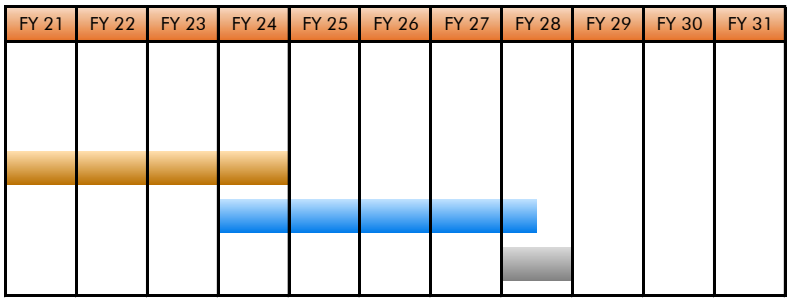
This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project E4. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION

SCHEDULE & STATUS

July 2000 to June 2028

Phase	Cost
Plan	7,230
Permits	610
Design	12,513
Construct	14,028
Closeout	154
	34,861



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
40324003-Upper Penitencia Ck, Coyote Ck to Dorel Dr, USACE	9,467	0	0	0	0	0	0	0	9,467
with inflation	9,467	0	0	0	0	0	0	0	9,467
40324005-Upper Penitencia Ck, Coyote Ck to Dorel Dr, LERRDs	2,309	0	0	0	0	0	0	0	2,309
with inflation	2,309	0	0	0	0	0	0	0	2,309
26324001-Upper Penitencia Ck, Coyote Ck to Dorel Dr	1,172	4,929	2,629	200	1,811	1,341	3,779	7,224	23,085
with inflation	1,172	4,929	2,629	218	2,067	1,599	4,449	8,573	25,636
TOTAL	**12,948**	**4,929**	**2,629**	**200**	**1,811**	**1,341**	**3,779**	**7,224**	**34,861**
with inflation	**12,948**	**4,929**	**2,629**	**218**	**2,067**	**1,599**	**4,449**	**8,573**	**37,412**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
40324003-Upper Penitencia Ck, Coyote Ck to Dorel Dr, USACE	9,466	0	-1	1	0	0	0	0	0	9,467
40324005-Upper Penitencia Ck, Coyote Ck to Dorel Dr, LERRDs	4,831	0	2,522	0	0	0	0	0	0	4,831
26324001-Upper Penitencia Ck, Coyote Ck to Dorel Dr	4,719	3,898	2,516	113	218	2,067	1,599	4,449	8,573	25,636
TOTAL	**19,016**	**3,898**	**5,037**	**114**	**218**	**2,067**	**1,599**	**4,449**	**8,573**	**39,934**

Adjusted Budget includes adopted budget plus approved budget adjustments. Allocated funding exceeds total planned expenditures by approximately $2,522,000. Excess funds will be returned to Fund Reserves at the close of the project.

FUNDING SOURCES

(in thousands $)

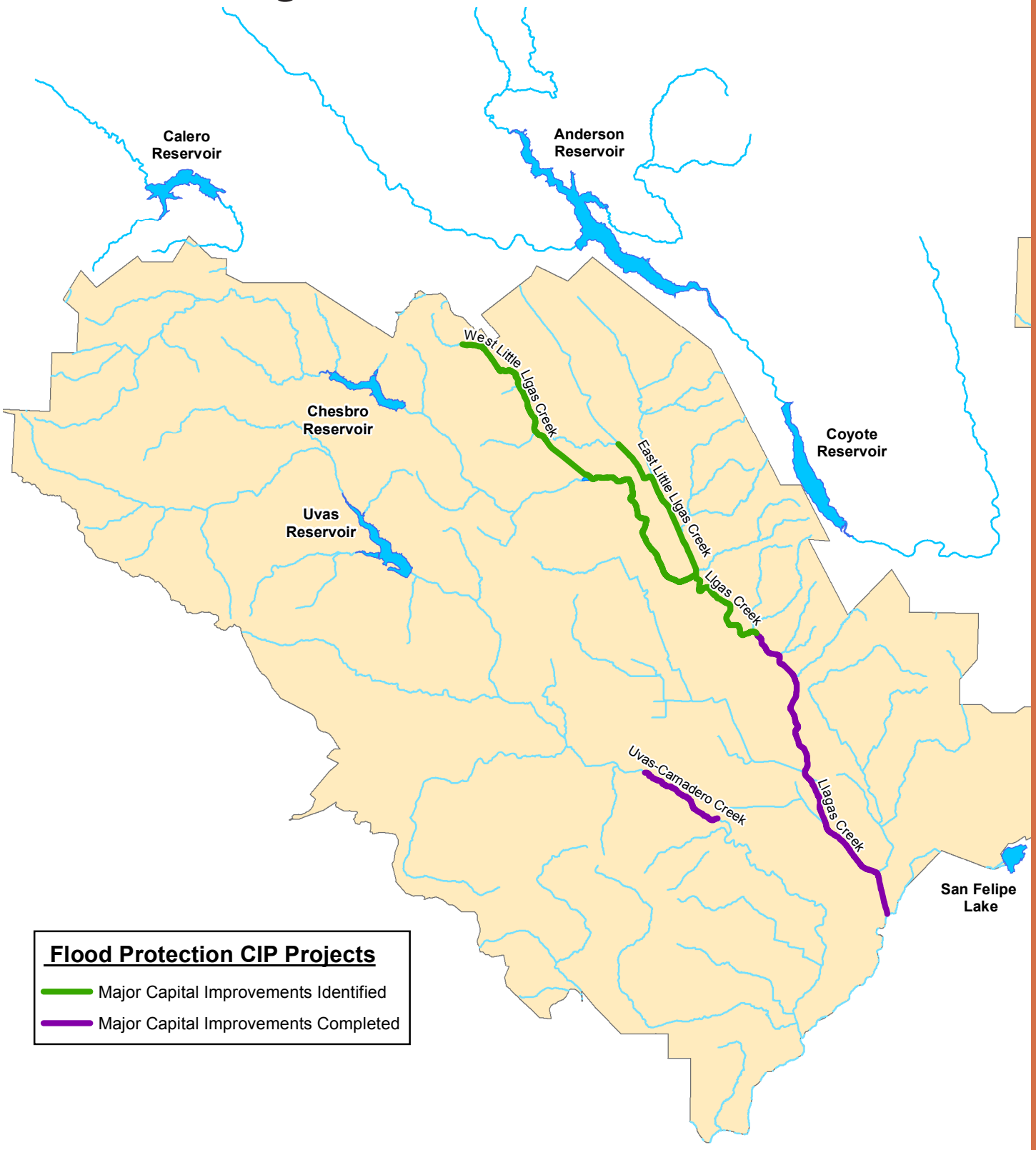
SCVWD Watershed Stream Stewardship Fund	14,298
SCVWD Safe, Clean Water Fund	25,636
Total	**39,934**

OPERATING COST IMPACTS

Operating costs are expected to average $790,000 per year beginning in FY25.

USEFUL LIFE: Not Available

Uvas/Llagas Watersheds



Project	**Llagas Creek–Lower, Capacity Restoration, Buena Vista Avenue to Pajaro River**
Program	Flood Protection – Uvas/Llagas Watershed
Project No.	50284010
Contact	Rechelle Blank rblank@valleywater.org

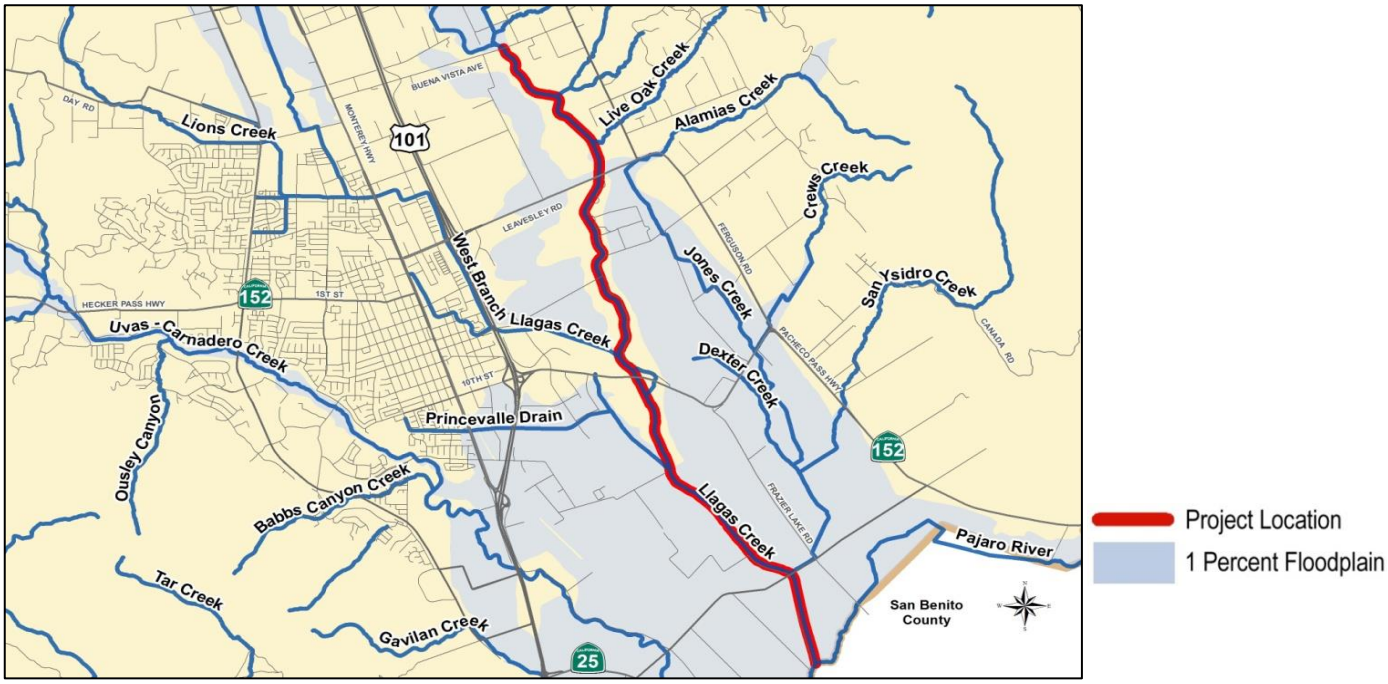
Lower Llagas Creek near Pajaro River

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements on 7.15 miles of Lower Llagas Creek, from Buena Vista Avenue to Pajaro River, to accomplish the following objectives:

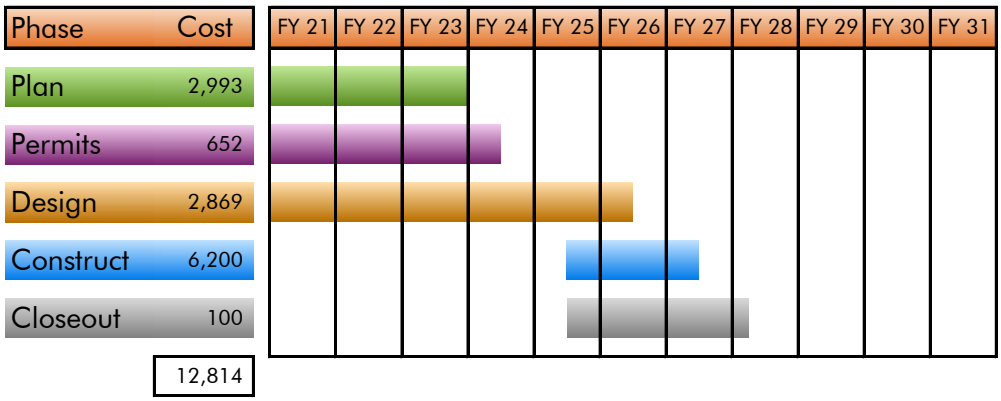
- Evaluate the current flood risk in the area surrounding the project versus the design level flood risk.
- Develop options to provide flood protection for Lower Llagas Creek Reaches 2 and 3 in accordance with Federal Emergency Management Agency criteria where applicable.
- Identify feasible opportunities for environmental restoration and corridor preservation.
- Coordinate planning, design, and construction efforts with the South County Regional Wastewater Authority.

PROJECT LOCATION



SCHEDULE & STATUS

September 2008 to July 2027



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
50284010-Llagas Creek–Lower, Capacity Restoration, Buena Vista Avenue to Pajaro River	3,323	861	130	1,250	950	3,000	3,000	300	12,814
with inflation	3,323	861	130	1,365	1,084	3,423	3,462	391	14,039

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
50284010-Llagas Creek–Lower, Capacity Restoration, Buena Vista Avenue to Pajaro River	6,947	0	2,763	0	0	0	3,240	3,462	391	14,039

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	12,919
State of California	1,120
Total	14,039

OPERATING COST IMPACTS

Operating cost impacts will determined at the completion of the design phase.

USEFUL LIFE: 30+ Years

Project	**Llagas Creek–Upper, Buena Vista Avenue to Llagas Road (E6)**
Program	Flood Protection – Uvas/Llagas Watershed
Project No.	26174051s
Contact	Rechelle Blank rblank@valleywater.org

Llagas Creek floods at Watsonville Road and the surrounding area

PROJECT DESCRIPTION

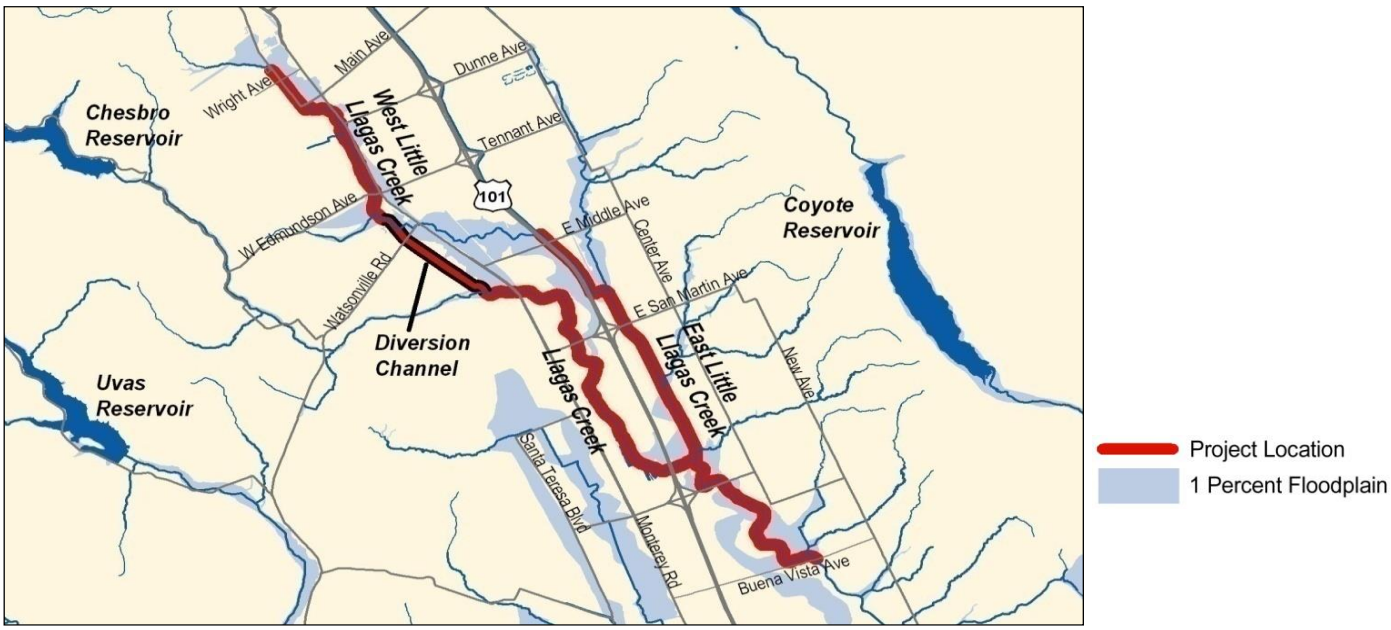
This project continues a Clean, Safe Creeks project in partnership with the U.S. Army Corps of Engineers (USACE) and the state to plan, design, and construct improvements along 13.9 miles of channel. The project extends from Buena Vista Avenue to Llagas Road, including West Little Llagas Creek in downtown Morgan Hill. The federally authorized preferred project protects the urban area of Morgan Hill from a 1% (or 100-year) flood, and reduces the frequency of flooding in surrounding areas. Construction includes channel modifications and replacement of road crossings. Valley Water continues to work with Congress to aggressively pursue federal funds to bring this project to full fruition. In 2012, project limits were extended 2,700 feet upstream to Llagas Road to address public concerns.

This project is accounted for in the following:

- 26174051 - Reaches 4-8 & 14 - Reimbursable - Lands, Easements, Rights of Way, Relocation, & Disposal
- 26174052 - Reaches 4-8 & 14 - Construction/Coordination with USACE
- 26174053 - Technical Studies (completed)
- 26174054 - Design
- 50C40335 - Construction, Reach 5, 6, & 7b

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project E6. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION

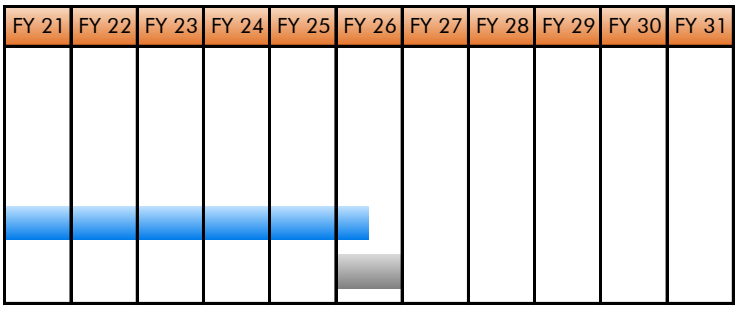


SCHEDULE & STATUS

July 2000 to June 2026

Project schedule may vary considerably and is dependent upon the USACE and Congress.

Phase	Cost
Plan	3,729
Permits	6,536
Design	64,457
Construct	238,387
Closeout	620
	324,735



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26174051-Llagas Ck—Upper, LERRDs	42,335	2,623	22	20	20	20	0	0	45,040
with inflation	42,335	2,623	22	22	23	24	0	0	45,049
26174052-Llagas Ck—Upper, USACE Coordination	49,686	48,426	58,292	53,648	31,400	8,886	250	0	249,388
with inflation	49,686	48,426	58,292	58,521	32,386	9,242	312	0	256,864
26174053-Llagas Ck—Upper, Technical Studies	1,446	0	0	0	0	0	0	0	1,446
with inflation	1,446	0	0	0	0	0	0	0	1,446
26174054-Llagas Ck—Upper, Design	21,864	1,856	941	1,050	1,050	1,150	950	0	28,861
with inflation	21,864	1,856	941	1,147	1,198	1,371	1,184	0	29,561
50C40335-Llagas Ck—Upper, Construction Rch 5, 6, & 7b	17,510	6,180	0	0	0	0	0	0	23,690
with inflation	17,510	6,180	0	0	0	0	0	0	23,690
TOTAL	**132,841**	**59,085**	**59,255**	**54,718**	**32,470**	**10,056**	**1,200**	**0**	**324,735**
with inflation	**132,841**	**59,085**	**59,255**	**59,689**	**33,607**	**10,637**	**1,495**	**0**	**332,920**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
26174051-Llagas Ck—Upper, LERRDs	45,040	0	82	0	0	0	9	0	0	45,049
26174052-Llagas Ck—Upper, USACE Coordination	50,636	47,476	0	58,292	58,521	32,386	9,242	312	0	256,864
26174053-Llagas Ck—Upper, Technical Studies	1,446	0	0	0	0	0	0	0	0	1,446
26174054-Llagas Ck—Upper, Design	28,193	0	4,473	0	0	0	184	1,184	0	29,561
50C40335-Llagas Ck—Upper, Construction Rch 5, 6, & 7b	17,510	6,180	0	0	0	0	0	0	0	23,690
TOTAL	**142,825**	**53,656**	**4,555**	**58,292**	**58,521**	**32,386**	**9,435**	**1,495**	**0**	**332,920**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	17,900
SCVWD Safe Clean Water Program Fund	168,595
Watershed Stream Stewardship Fund	23,690
State of California	39,394
City of Morgan Hill	3,341
NRCS Grants (Unsecured)	80,000
Total	**332,920**
USACE - In-kind Services	65,000

OPERATING COST IMPACTS

Operation costs are currently anticipated to be approximately $1,500,000 per year, beginning in FY26.

USEFUL LIFE: 50+ Years

Multiple Watersheds

Flood Protection CIP Projects

Major Capital Improvements Identified

NOTE:
Location of Erosion Repair projects are not identified on this map.

Project	**San Francisco Bay Shoreline (E7)**
Program	Flood Protection – Multiple Watersheds
Project No.	00044026s
Contact	Rechelle Blank rblank@valleywater.org

This project will restore tidal marshland in the San Francisco Bay. (Photo by Cris Benton)

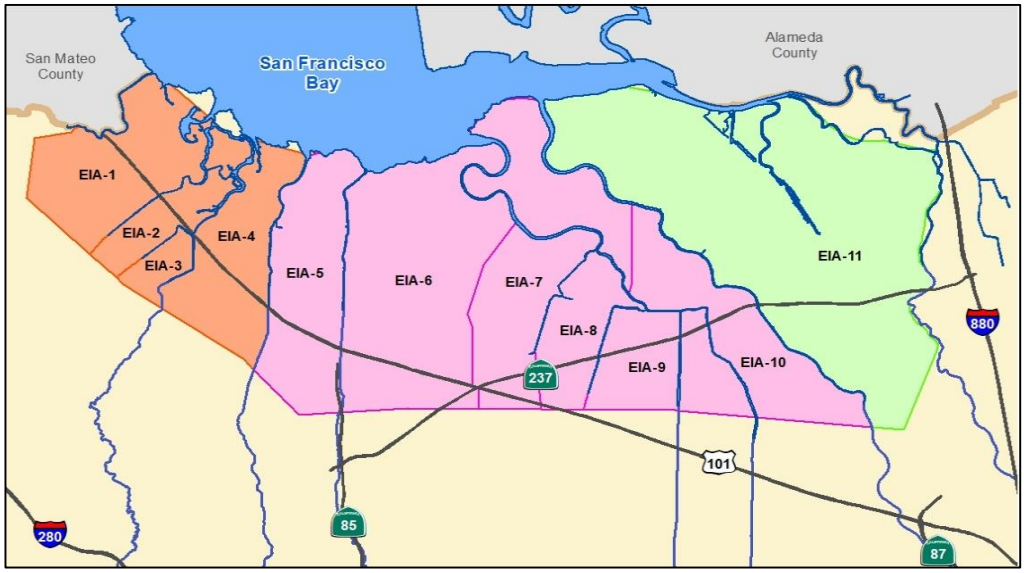
PROJECT DESCRIPTION

This project partners with the California Coastal Conservancy, U.S. Army Corps of Engineers (USACE) and key stakeholders to conduct an integrated, multi-objective project along the San Francisco Bay Shoreline. Project number 00044026 funded the USACE Feasibility Study effort for the North San Jose area, known as Economic Impact Area 11 (EIA 11) which was completed in FY17. This project number will continue to fund other Shoreline efforts outside of the Safe, Clean Water (SCW) project numbers. For EIA 11, the Shoreline Project received $177M under the USACE FY 2018 Disaster Supplemental Appropriations Bill. Valley Water's share of EIA 11 design and construction is $46.8M. Valley Water has been awarded a total of $61 million from a Measure AA grant to partially fund the design and construction of EIA 11. SCW funds will provide $15 million toward Valley Water's cost share of the design and partial construction efforts for EIA 11. SCW funds will provide $5 million toward Valley Water's cost share of the planning, design and construction phase efforts for project number 26444002 for of the Palo Alto-Mountain View area, known as EIA 1-4, along with the remaining EIAs and planning and design phases of project number 26444004 for the area from Mountain View-Sunnyvale-San Jose area, known as EIA 5-10. The Shoreline Project will accomplish the following objectives:

- Provide integrated fluvial and 1% coastal flood protection.
- Provide protection for future sea level rise.
- Restore and/or enhance tidal marsh and related habitats.
- Provide recreational and public access opportunities.
- Pursue continued federal funding.
- Obtain a letter of map revision from the Federal Emergency Management Agency at completion of the Construction Phase.
- Coordinate closely with the South Bay Salt Pond Restoration Project, local jurisdictions/cities, U.S. Fish and Wildlife Service, the community and key stakeholders.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project E7. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

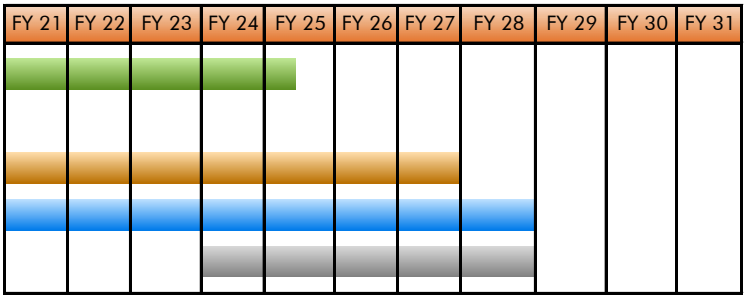
PROJECT LOCATION



SCHEDULE & STATUS

July 2005 to June 2028

Phase	Cost
Plan	22,236
Permits	1,195
Design	49,186
Construct	134,972
Closeout	200
	208,082



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY20**	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**Future**	
00044026-San Francisco Bay Shoreline	20,379	77,775	21,632	1,589	30,572	100	100	0	152,147
with inflation	20,379	77,775	21,632	1,735	33,483	119	125	0	155,248
62044042-Shoreline Early Implementation	359	0	0	0	0	0	0	0	359
with inflation	359	0	0	0	0	0	0	0	359
26444001-EIA 11 Design & Part Construction	17,492	23	0	0	0	0	0	0	17,515
with inflation	17,492	23	0	0	0	0	0	0	17,515
26444002 - EIAs 1-4	3,003	754	1,359	1,684	2,591	1,025	5,200	10,400	26,016
with inflation	3,003	754	1,359	1,839	2,957	1,222	6,480	13,848	31,462
26444004 - EIAs 5-10	0	0	1,045	1,000	1,000	3,000	3,000	3,000	12,045
with inflation	0	0	1,045	1,092	1,141	3,578	3,739	3,907	14,501
TOTAL	**41,233**	**78,552**	**24,036**	**4,273**	**34,163**	**4,125**	**8,300**	**13,400**	**208,082**
with inflation	**41,233**	**78,552**	**22,991**	**3,574**	**36,440**	**1,342**	**6,605**	**17,755**	**219,086**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY20**	**FY21**		**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**Future**	
00044026-San Francisco Bay Shoreline	49,843	48,311	0	21,632	1,735	33,483	119	125	0	155,248
62044042-Shoreline Early Implementation	359	0	0	0	0	0	0	0	0	359
26444001-EIA 11 Design & Part Construction	17,510	5	0	0	0	0	0	0	0	17,510
26444002 - EIAs 1-4	3,757	0	0	1,359	1,839	2,957	1,222	6,480	13,848	31,462
26444004 - EIAs 5-10	0	0	0	1,045	1,092	1,141	3,578	3,739	3,907	14,501
TOTAL	**71,469**	**48,316**	**0**	**24,036**	**4,666**	**37,581**	**4,919**	**10,343**	**17,755**	**219,086**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	33,383
SCVWD Clean, Safe Creeks and Natural Flood Protection Fund (Environmental Enhancement Grant)	2,011
SCVWD Safe, Clean Water and Natural Flood Protection Fund	63,479
California Department of Water Resources	420
SFBRA Measure AA (Grant)	60,844
SFBRA Measure AA (Ballot Reimbursement)	831
State of California	58,118
Total	219,086
Federal Partners, South Bay Salt Ponds (SBSP)	48,470
State, SBSP	14,720
Foundations, Packard-Hewlett-Goldman-Moore, SBSP	17,060
Coastal Conservancy, Shoreline	2,010
Federal, USACE, Shoreline	8,990
Total Partnership Funding for In-kind Services	**91,250**

OPERATING COST IMPACTS

Operating costs will be determined upon completion of the construction phase.

USEFUL LIFE: 50+ Years

Project	**Watersheds Asset Rehabilitation Program**
Program	Flood Protection - Multiple Watersheds
Project No.	62084001
Contact	Rechelle Blank rblank@valleywater.org

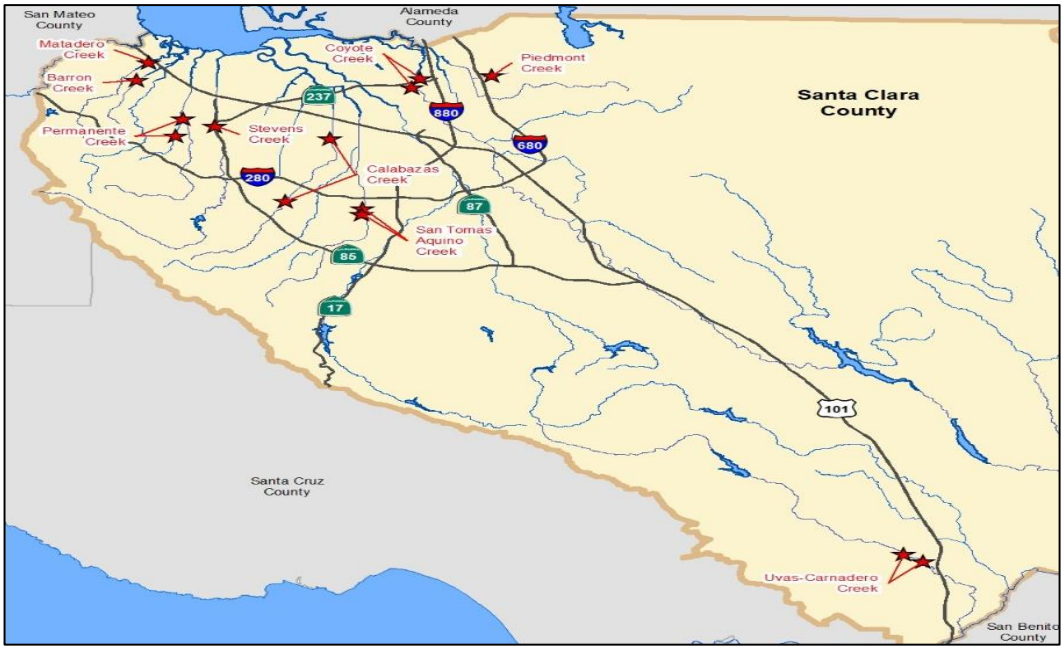
View of damage caused by burrowing animals along West Branch of Llagas Creek in the Uvas/Llagas Watershed

PROJECT DESCRIPTION

This project plans, designs, and constructs repairs to levee and stream bank sites that have erosion damage. Each site requires a different type of repair based on location, severity, and velocities in the creek. The objective of this project is to restore the stream bank or levee to a stable condition so as to reduce the risk of flooding and/or damage to adjacent properties and facilities. For facilities with animal conflict damage, the objective is to repair the damage caused by animals and where applicable, install deterrents for future animal activities. The repair work consists of, but is not limited to:

- Excavation and rebuilding of eroded soil material.
- Installation of rodent barriers such as mesh or fabric.
- Repairing the banks with methods commensurate with the extents of damage and environmental constraints.
- Geomorphic channel restoration with bed and bank repair.
- Outfall restoration and repair.
- Sediment removal and blockage repair.
- Fish ladder modifications and repairs.

PROJECT LOCATION

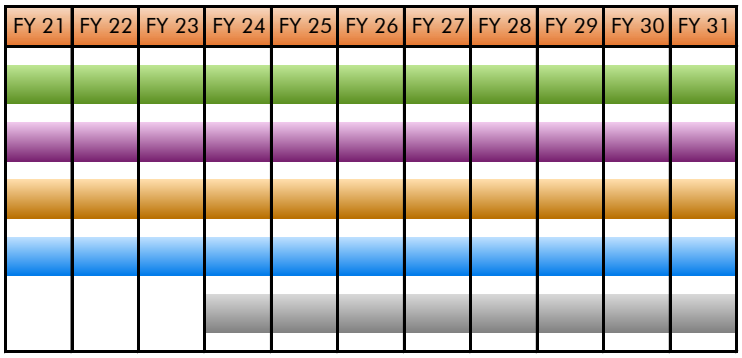


★ Project Location

SCHEDULE & STATUS

Several small projects go through the design and construction phases each year under the Stream Maintenance Program 2 permit.

Phase	Cost
Plan	3,512
Permits	4,985
Design	19,595
Construct	94,785
Closeout	670
	147,104



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
62084001-Watersheds Asset Rehabilitation Program	25,753	5,800	18,719	2,372	2,351	2,331	2,321	87,457	147,104
with inflation	25,753	5,800	18,719	2,566	2,646	2,730	2,829	121,530	182,574

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
62084001-Watersheds Asset Rehabilitation Program	35,831	3,531	7,809	10,910	2,566	2,646	2,730	2,829	121,530	182,574

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	182,574
City of Palo Alto (Matadero Creek)	227
Total	182,574

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter existing facilities or modes of operation.

USEFUL LIFE: Not Available

Water Resources Stewardship

Water Resources Stewardship Capital Improvements

WATER RESOURCES STEWARDSHIP OVERVIEW

Valley Water plans, designs and constructs various capital projects to meet the Board's Ends Policy E-4, "There is water resources stewardship to protect and enhance watersheds and natural resources and improve the quality of life in Santa Clara County." These projects may fulfill environmental enhancement, mitigation, or stewardship goals and priorities.

Valley Water has placed an emphasis on stewardship since 1999 when Valley Water's Board of Directors adopted a mission and policies that added a focus on environmental stewardship. In 2001, the California legislature added environmental stewardship to Valley Water's purpose. Specifically, Valley Water's environmental stewardship activities focus on these three areas:

- Healthy creek and bay ecosystems
- Clean, safe water in creeks and the bay
- Improved quality of life through trails, open space and water resources management

Valley Water's stewarship work is extensive. Actions to protect the environment are woven into all we do. Some of Valley Water's stewardship accomplishments since 2000 are:

- Rehabilitated or restored 90 acres of riparian habitat and 500 acres of tidal wetland habitat
- Provided funding for 92 projects that resulted in 71 miles of public access
- Removed over 15,000 lbs of mercury from the creeks in 2017-2018
- Removed more than 20 fish passage impediments
- In conjunction with the Open Space Authority, acquiring 1,300 acres of land for preservation of California Red Legged Frog and California Tiger Salamander habitat
- Completed a draft of existing conditions analysis of fish passage barriers

Environmental Enhancement & Stewardship Projects

The voters in Santa Clara County have supported Valley Water's environmental enhancement and stewardship efforts, including the creation or restoration of tidal or riparian habitat, by approving three special parcel taxes. In 2000, voters approved the Clean, Safe Creeks and Natural Flood Protection Plan (Clean, Safe Creeks). The Clean, Safe Creeks Plan was replaced by the Safe, Clean Water and Natural Flood Protection Program, which voters approved in 2012 (2012 Safe, Clean Water). In 2020, voters approved the renewal of the Safe, Clean Water Program, which replaced the 2012 Safe, Clean Water Program in entirety. Unlike the first two special parcel taxes, which were set to sunset in 15-years from the date of implementation, the renewed Safe, Clean Water Program will continue until repealed by voters or until the Board determines the funding is no longer needed.

The renewed Safe, Clean Water Program - Fund 26, along with the Watershed and Stream Stewardship (1% ad valorem property tax) - Fund 12 and the Water Utility Enterprise - Fund 61, are the primary funding sources for nvironmental enhancement and stewardship projects.

For environmental enhancement and stewardship projects under the renewed Safe, Clean Water Program that have not yet been fully defined, the CIP Planning Process will be conducted to allocate the Safe, Clean Water Program funding to the enhancement opportunities that meet Program Key Performance Indicators (KPIs).

Environmental enhancement projects are constructed at the direction of the Board either to meet the Safe, Clean Water Program obligations or to meet other Board priorities.

Stewardship projects are implemented to promote water quality awareness; reduce pollutants in streams; support additional trails, parks and open space; support creek side recreation; and reduce greenhouse gases. Stewardship projects are implemented as required by

the Safe, Clean Water Program or at the discretion of the Board when reasonable and appropriate. These projects are often accomplished in partnership with or support of other agencies.

Major Capital Improvements Identified in the CIP

- Watershed Habitat Enhancement Design & Construction
- Stevens Creek Fish Passage Enhancement
- Hale Creek Enhancement Pilot Study
- Almaden Lake Improvements
- Salt Ponds A5-11 Restoration
- Safe, Clean Water Program Fish Passage Improvements
- Ogier Ponds Separation from Coyote Creek

Feasibility Studies

In July 2016 the Board provided direction for increased visibility and accelerated delivery of environmental stewardship projects to meet Board priorities. Valley Water has dedicated additional full-time positions to complete the feasibility studies. These feasibility studies will determine the viability of projects that are of interest to the community.

Major Capital Improvements Identified in the CIP

- Watershed Habitat Enhancements

CIP PLANNING PROCESS AND FINANCIAL ANALYSIS

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a Draft CIP in February.

The Board then authorizes release of the Draft CIP to the public and local municipalities for review, conducts a public hearing, and approves the resolution to adopt the Final CIP in May.

Projects under the Safe, Clean Water Program have funding allocations and if additional funds are required, the Board may direct that other available revenue be used to implement the proposed projects. Environmental enhancement and stewardship projects not included in the Safe, Clean Water Program are implemented at the discretion of the Board. The inclusion of these projects in the FY 2022-26 CIP has been approved by the Board.

Financial analysis of the following funding sources for Water Resources Stewardship capital improvements determined that the funding needs for approved projects can be met:

- Watershed and Stream Stewardship Fund
- Safe, Clean Water Fund
- Water Utility Enterprise Fund

It is understood that new capital projects have an impact on future operations and maintenance, and this is included in the financial analysis. Periodically throughout the project, projections of this impact are updated to reflect changes to the project elements.

Significant Project Updates from the Prior Year

• The Almaden Lake Improvements Project increased in cost by $26 million as a result of the revised 60 percent design and construction cost estimates to reflect the use of piped water, as opposed to creek water. The project team plans to take the Final Environmental Impact Report to the Board in the Spring 2021.

• SCW Fish Passage Improvements, which once included Evelyn, Singleton and the Bolsa Road Fish Passage Projects, has been revised to now only include Singleton and Evelyn. The Bolsa Road Fish Passage Project has been separated out into a new project. The total cost of all three projects combined has increased by $7.6 million since production of the FY2021-25 CIP.

Water Resources Stewardship Capital Improvements

The following table is a project funding schedule for water resources stewardship capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2020-21.

Water Resources Stewardship Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
	ENVIRONMENTAL ENHANCEMENT & STEWARDSHIP										
	Lower Peninsula Watershed										
00294001s	Stevens Creek Fish Passage Enhancement	850	-	-	-	2,448	6,555	3,690	3,637	2,248	19,428
26164001	Hale Creek Enhancement Pilot Study (D6.1)	4,853	172	-	3,824	-	-	-	-	-	8,849
	Guadalupe Watershed										
26044001	Almaden Lake Improvements (D4.1a)	5,707	1,710	545	9,325	20,902	19,681	775	31	67	58,198
	Coyote Watershed										
00C40400s	Watershed Habitat Enhancement Design & Construction	-	-	-	-	2,184	2,282	2,385	11,680	49,802	68,333
	Multiple Watersheds										
20444001s	Salt Ponds A5-11 Restoration	5,630	171	243	585	1,268	435	-	-	-	8,089
26044002	SCW Fish Passage Improvements (D4.3; Evelyn,Singleton)	5,328	-	1	979	211	-	-	-	-	6,518
26044004	Bolsa Road Fish Passage Improvement (D6.2)	-	-	-	2,205	4,385	-	-	-	-	6,590
26C40370	SCW Implementation: Fish Passage Improvements (D4)	-	-	-	-	2,127	1,184	1,000	1,250	1,252	6,813
26044003	Ogier Ponds Separation from Coyote Creek (D4.1b)	1,598	-	512	1,050	1,482	-	-	-	-	4,130
	ENVIRONMENTAL FEASIBILITY STUDIES										
62044001	Watershed Habitat Enhancement Studies	3,170	1,034	-	-	-	-	-	-	-	4,204
	ENVIRONMENTAL MITGATION										
62184001	SMP Mitigation, Stream and Watershed Land Preservation	16,769	-	1	-	-	-	-	-	-	16,769
	TOTAL	43,905	3,087	1,302	17,968	35,007	30,137	7,850	16,598	60,027	214,579

FY 2020-21 Funds to be reappropriated

The following table shows funding requirements from each funding source for enhancement capital improvements.

Water Resources Stewardship - Funding Sources ($K)

Fund Number	FUND NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
61	Water Utility Enterprise Fund	765	-	-	-	3,876	5,008	2,428	11,680	30,926	54,683
12	Watershed Stream Stewardship Fund	25,106	1,205	1	585	2,024	4,264	3,647	3,637	21,124	61,592
26	Safe, Clean Water and Natural Flood Protection Fund	18,034	1,882	1,301	17,383	29,107	20,865	1,775	1,281	7,977	98,304
	TOTAL	43,905	3,087	1,302	17,968	35,007	30,137	7,850	16,598	60,027	214,579

FY 2020-21 Funds to be reappropriated

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Environmental Enhancement & Stewardship

Lower Peninsula Watershed

Project	**Stevens Creek Fish Passage Enhancements**
Program	Water Resources Stewardship - Environmental Enhancement
Project No.	00294001s
Contact	John Bourgeois jbourgeois@valleywater.org

Example of a fish ladder to be modified or reconstructed for improved fish passage

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Moffett Boulevard fish ladder to improve fish passage at Stevens Creek Dam to accomplish the following objectives:

- Restore and maintain a healthy steelhead trout population in the Stevens Creek watershed.
- Provide adequate passage for adult steelhead trout to reach suitable spawning and rearing habitat and for out-migration of juveniles.

This project is accounted for in the following:

- 00294001 Fish Passage Planning
- 00C40145 Moffett Boulevard Fish Ladder
- 62C40403 Stevens Creek Fish Barrier Removal Construction

PROJECT LOCATION

Project Location

SCHEDULE & STATUS

July 2008 to June 2025

Planning phase is complete.
Project is on hold.

Phase	Cost
Plan	824
Permits	122
Design	2,970
Construct	13,240
Closeout	80
	17,262

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
00294001-FAHCE Stevens Ck Fish Passage Planning	850	0	0	0	0	0	0	0	850
with inflation	850	0	0	0	0	0	0	0	850
00C40145-FAHCE Stevens Ck Fish Ladder at Moffett Blvd	0	0	0	1,370	1,660	0	0	0	3,030
with inflation	0	0	0	1,496	1,814	0	0	0	3,310
00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet	0	0	0	352	1,110	40	0	0	1,502
with inflation	0	0	0	384	1,215	48	0	0	1,647
62C40403-Stevens Ck Fish Barrier Removal Construction	0	0	0	520	3,200	3,200	3,100	1,860	11,880
with inflation	0	0	0	568	3,526	3,642	3,637	2,248	13,621
TOTAL	**850**	**0**	**0**	**2,242**	**5,970**	**3,240**	**3,100**	**1,860**	**17,262**
with inflation	**850**	**0**	**0**	**2,448**	**6,555**	**3,690**	**3,637**	**2,248**	**19,428**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
00294001-FAHCE Stevens Ck Fish Passage Planning	850	0	0	0	0	0	0	0	0	850
00C40145-FAHCE Stevens Ck Fish Ladder at Moffett Blvd	0	0	0	0	1,496	1,814	0	0	0	3,310
00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet	0	0	0	0	384	1,215	48	0	0	1,647
62C40403-Stevens Ck Fish Barrier Removal Construction	0	0	0	0	568	3,526	3,642	3,637	2,248	13,621
TOTAL	**850**	**0**	**0**	**0**	**2,448**	**6,555**	**3,690**	**3,637**	**2,248**	**19,428**

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund–10%	1,943
SCVWD Water Utility Enterprise Fund–90%	17,485
Total	**19,428**

OPERATING COST IMPACTS

Operating costs will be determined during the design phase.

Project	**Hale Creek Enhancement Pilot Study (D6.1)**
Program	Water Resources Stewardship - Environmental Enhancements
Project No.	26164001
Contact	Rechelle Blank rblank@valleywater.org

Reach to be modified downstream of 7th Day Adventist foot bridge between Marilyn Drive and North Sunshine Drive

PROJECT DESCRIPTION

This pilot project plans, designs, and constructs improvements to an approximately 650-foot long reach in Hale Creek to accomplish the following objectives:

- Provide flood protection and enhance habitat.
- Restore stream recharge capability to a concrete-lined portion.
- Remove existing concrete channel and replace with a vegetated soft-bottom channel, to improve and restore the natural functions of the stream.

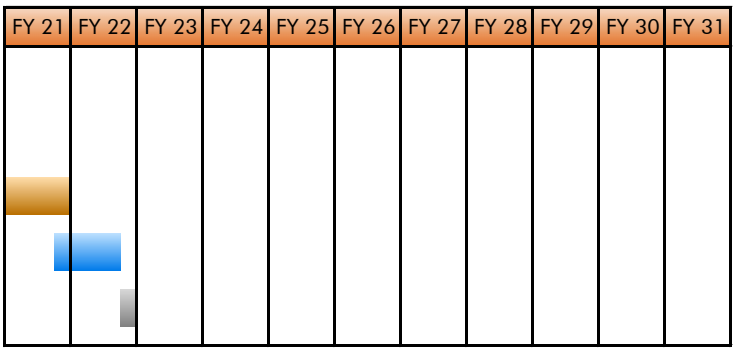
This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project D6. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION

SCHEDULE & STATUS

July 2014 to June 2022

Phase	Cost
Plan	39
Permits	138
Design	1,972
Construct	6,681
Closeout	10
	8,849



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26164001-Hale Creek Enhancement Pilot Study (D6.1)	2,136	2,889	3,824	0	0	0	0	0	8,849
with inflation	2,136	2,889	3,824	0	0	0	0	0	8,849

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
26164001-Hale Creek Enhancement Pilot Study (D6.1)	4,853	172	0	3,824	0	0	0	0	0	8,849

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	8,849
Other Funding Sources	0
Total	8,849

OPERATING COST IMPACTS

Operating cost impacts will be determined at the completion of the design phase.

USEFUL LIFE: Not available

Environmental Enhancement & Stewardship

Guadalupe Watershed

Project	**Almaden Lake Improvements (D4.1a)**
Program	Water Resources Stewardship – Environmental Enhancement
Project No.	26044001
Contact	Rechelle Blank rblank@valleywater.org

A southern view of Almaden Lake, through which Alamitos Creek flows

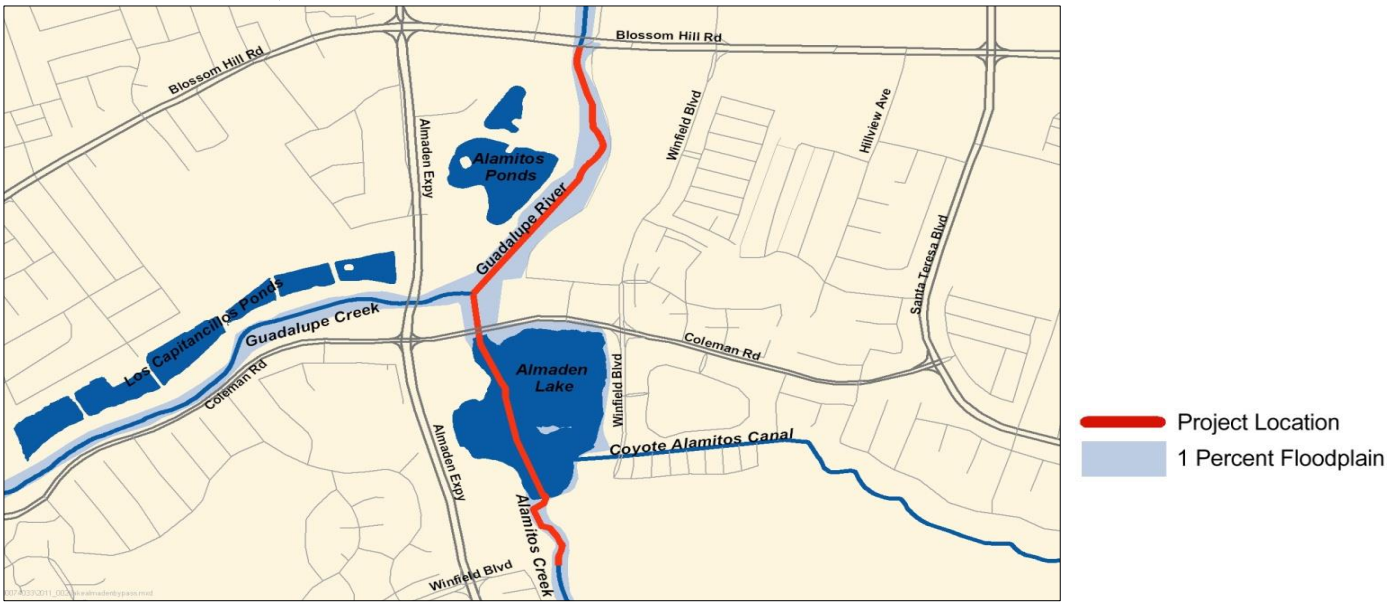
PROJECT DESCRIPTION

The project will separate Alamitos Creek from Almaden Lake and restore Alamitos Creek's stream function within the footprint of Almaden Lake. The goals are to improve water quality and physical habitat for steelhead and other anadromous fish by separating the creek from the lake while incorporating the principle of geomorphic design and to create a self-sustaining channel that requires little maintenance to keep it viable for fisheries and wildlife benefits. Benefits of this project will be the creation of channel complexity in the restored stream channel such as instream riffle-pool habitat, cover for rearing fish, gravel to support spawning and plantings that will provide numerous ancillary wildlife benefits; reduction of high water temperatures released from Almaden Lake into Alamitos Creek; and removal of entrainment, predatory and methylmercury impacts to anadromous fish from Almaden Lake. The objectives are as follows:

- Separate Alamitos Creek from Almaden Lake.
- Reduce thermal impediment to migration of anadromous fish.
- Remove entrainment and impacts from predatory species to anadromous fish.
- Reduce mercury concentration in target fish to meet applicable water quality objectives.
- Minimize impacts to recreational features.

This project is funded for the planning and design phase from the Safe, Clean Water (SCW), Priority D4.1a. Funding for construction may also be available from the Safe, Clean Water Program. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

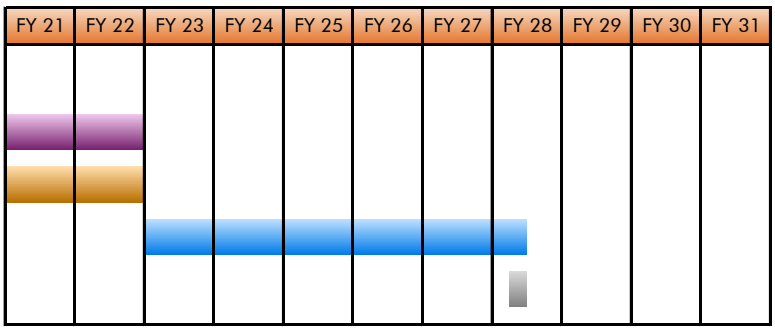
PROJECT LOCATION



SCHEDULE & STATUS

July 2011 to December 2027

Phase	Cost
Plan	2,462
Permits	1,214
Design	4,597
Construct	47,723
Closeout	10
	56,467



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26044001-Almaden Lake Improvements (D4.1a)	5,332	1,540	9,870	20,000	19,000	650	25	50	56,467
with inflation	5,332	1,540	9,870	20,902	19,681	775	31	67	58,198

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
26044001-Almaden Lake Improvements (D4.1a)	5,707	1,710	545	9,325	20,902	19,681	775	31	67	58,198

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Safe,Clean Water Fund	58,198
Other Funding Sources	0
Total	58,198

OPERATING COST IMPACTS

Annual post-construction operating costs for this project are anticipated at approximately $270,000 starting in FY25.

USEFUL LIFE: 100 Years

Environmental Enhancement & Stewardship

Coyote Watershed

Project	**Watershed Habitat Enhancements Design & Construction**
Program	Water Resources Stewardship - Environmental Enhancements
Project No.	00C40400s
Contact	Rechelle Blank rblank@valleywater.org

Aerial view looking downstream of the Ogier Pond complex

PROJECT DESCRIPTION

This project provides for future design and construction of possible habitat enhancements that may occur at Metcalf Ponds along Coyote Creek if feasible projects are identified by the feasibility study currently underway in Project 62044001, and the Board approves proceeding with the work. It also provides funding for possible future construction at Ogier Ponds along Coyote Creek, if the Board approves implementing a project being planned under project 26044003. Funding for this project is contingent on a successful Fisheries and Aquatic Habitat Collaborative Effort settlement. This project accomplishes the following objective:

- Enhance a healthy steelhead trout and salmon population in the Coyote Creek Watershed.

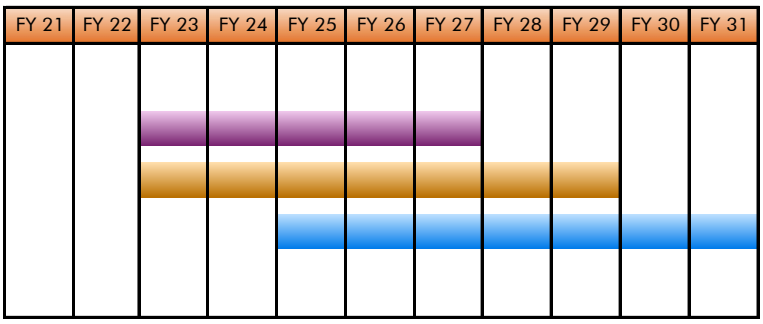
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2023 to June 2031

Phase	Cost
Plan	-
Permits	2,000
Design	11,000
Construct	40,000
Closeout	-
	53,000



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY20**	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**Future**	
95C40400 Project 1 Design & Construction (e.g. Metcalf Ponds)	0	0	0	2,000	2,000	2,000	10,000	10,000	26,000
with inflation	0	0	0	2,184	2,282	2,385	11,680	12,049	30,580
00C40401s Project 2 Construction (e.g. Ogier Ponds)	0	0	0	0	0	0	0	27,000	27,000
with inflation	0	0	0	0	0	0	0	37,753	37,753
TOTAL	**0**	**0**	**0**	**2,000**	**2,000**	**2,000**	**10,000**	**37,000**	**53,000**
with inflation	**0**	**0**	**0**	**2,184**	**2,282**	**2,385**	**11,680**	**49,802**	**68,333**

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY20**	**FY21**		**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**Future**	
95C40400 Project 1 Design & Construction (e.g. Metcalf Ponds)	0	0	0	0	2,184	2,282	2,385	11,680	12,049	30,580
00C40401s Project 2 Construction (e.g. Ogier Ponds)	0	0	0	0	0	0	0	0	37,753	37,753
TOTAL	**0**	**0**	**0**	**0**	**2,184**	**2,282**	**2,385**	**11,680**	**49,802**	**68,333**

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	49,456
SCVWD Watershed and Stream Stewardship Fund	18,877
SCVWD Safe, Clean Water Fund	0
Total	**68,333**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs for routine maintenance of the channel. The amount of the increase will be developed in the design phase, when adequate information on the staff-recommended alternative is available.

USEFUL LIFE: 50 years

Environmental Enhancement & Stewardship

Multiple Watersheds

Project	**Salt Ponds A5-11 Restoration (D8)**
Program	Water Resources Stewardship - Environmental Enhancements
Project No.	20444001s
Contact	John Bourgeois jbourgeois@valleywater.org

View of one of the former salt evaporation facilities near Alviso

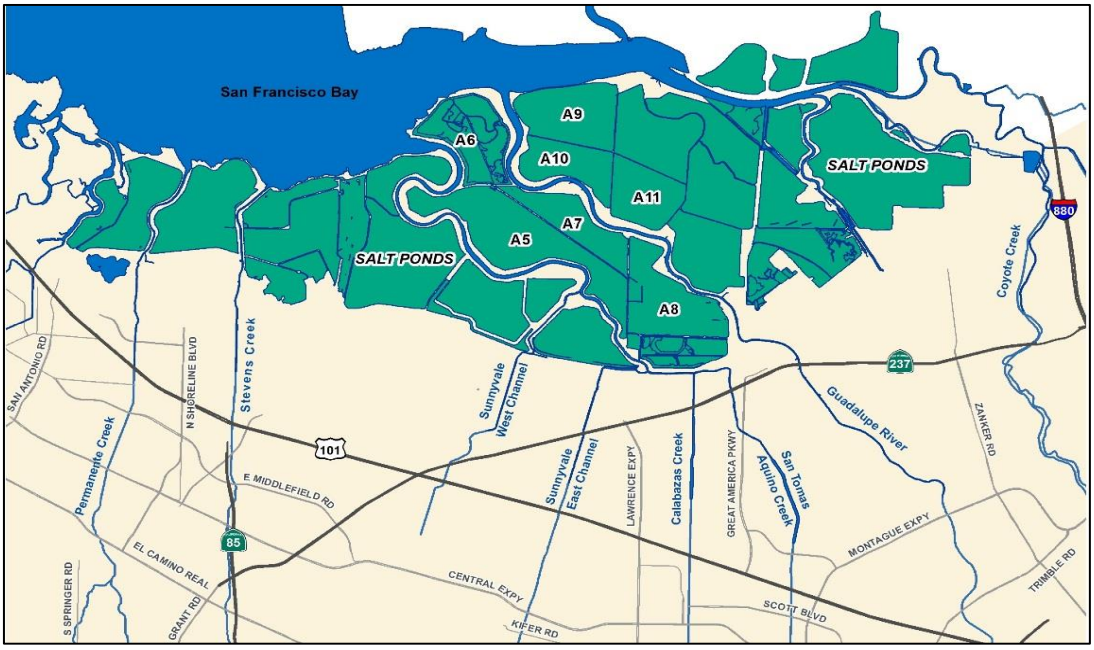
PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the South Bay Salt Ponds to accomplish the following objectives:

- Realign Calabazas and San Tomas Creeks to flow directly into Pond A8.
- Meet permiting requirements for the creek's realignment or further restoration efforts.
- Fully open the Pond A8 Notch to increase tidal flow into the pond.
- Restoration of Ponds A5 through A11 of the Alviso Complex.
- Improve or construct roads at new placement sites.
- Restore the South Bay Salt Ponds to improve wildlife habitat and protect residents from tidal flooding.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project D8. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

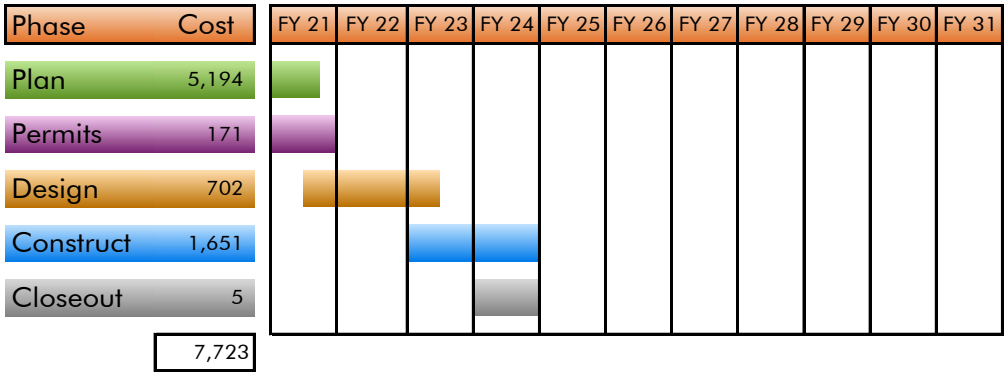
PROJECT LOCATION



Project Location

SCHEDULE & STATUS

July 2013 to June 2024



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
20444001 - Salt Ponds A5-11 Restoration	4,814	439	585	1,190	390	0	0	0	7,418
with inflation	4,814	439	585	1,268	435	0	0	0	7,542
26444003 - South Salt Ponds Restoration (D8)	281	24	0	0	0	0	0	0	305
with inflation	281	24	0	0	0	0	0	0	305
TOTAL	**5,095**	**463**	**585**	**1,190**	**390**	**0**	**0**	**0**	**7,723**
with inflation	**5,095**	**463**	**585**	**1,268**	**435**	**0**	**0**	**0**	**7,847**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
20444001 - Salt Ponds A5-11 Restoration	5,082	171	0	585	1,268	435	0	0	0	7,542
26444003 - South Salt Ponds Restoration (D8)	548	0	243	0	0	0	0	0	0	548
TOTAL	**5,630**	**171**	**243**	**585**	**1,268**	**435**	**0**	**0**	**0**	**8,090**

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately $243,000. Excess funding will be returned to reserves upon the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed and Stream Stewardship Fund	7,542
SCVWD Safe, Clean Water Fund	548
Other Funding Sources	0
Total	**8,090**

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately $4 million every three years, beginning in FY24, by reducing on-going sediment removal.

USEFUL LIFE: Not Available

Project	**SCW Fish Passage Improvements (D4.3)**
Program	Water Resources Stewardship - Environmental Enhancements
Project No.	26044002
Contact	John Bourgeois jbourgeois@valleywater.org

Fish barrier across Coyote Creek at Singleton Road

PROJECT DESCRIPTION

This project plans, designs and constructs improvements for two high priority fish barriers in Santa Clara County. Valley Water has partnered with the City of San José to remove the fish passage barrier at the city-owned Singleton Road crossing on Coyote Creek near Capitol Expressway. The project will remove the barrier and restore a free-flowing condition for Coyote Creek providing migratory fish access to approximately 18 miles of creek habitat. The Evelyn Bridge Road project was completed in November 2015 to remove a migratory fish passage barrier that redirects high flow events leaving the channel dry under the bridge and downstream of the fish ladder. Removal of the barrier under Evelyn Bridge provided nearly 9 miles of creek habitat along Stevens Creek. The project also contributed funds for planning and design of the Bolsa Road Fish Passage Project, which originated under this project to remove a fish passage impediment at the Bolsa Road railroad bridge. During the design phase, this project was extracted from the fish passage project because geomorphic design features were identified to restore bank stability and improve stream function that better aligned with Project D6 under the Safe, Clean Water Program.

- Planning, design and construction for a passage impediment at the Evelyn Bridge preventing upstream/downstream movement of steelhead in the Stevens Creek watershed. Remediation of this barrier will facilitate movement to 8.8 miles of higher quality upstream habitat and allow for out-migrant fish to access San Francisco Bay unimpeded. (Completed in 2016)
- Execute a partnership agreement to provide technical support to the City of San Jose for removal of the Singleton Road low water crossing in Coyote Creek. Removal of the fish passage barrier will provide migratory fish access to approximately 18 miles of creek habitat upstream from the site and will allow for unimpeded access of out-migrant fish through the site. An interim project will install a temporary flatcar bridge to meet these objectives. The City of San Jose will continue to seek funding for the permanent bridge solution.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project D4.3. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

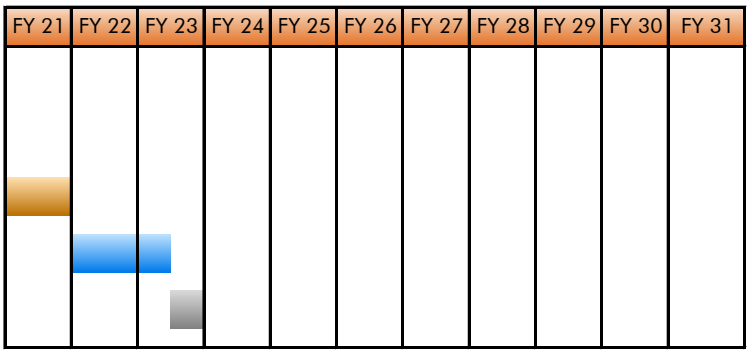
PROJECT LOCATION

Project Location

SCHEDULE & STATUS

July 2015 to June 2023

Phase	Cost
Plan	283
Permits	356
Design	1,824
Construct	3,974
Closeout	-
	6,500



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26044002-SCW Fish Passage Improvements (D4.3)	3,397	1,930	980	193	0	0	0	0	6,500
with inflation	3,397	1,930	980	211	0	0	0	0	6,518

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
26044002-SCW Fish Passage Improvements (D4.3)	5,328	0	1	979	211	0	0	0	0	6,518

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	6,518
Other Funding Sources	0
Total	6,518

OPERATING COST IMPACTS

TBD

USEFUL LIFE: 50 Years

Project	**Bolsa Road Fish Passage Improvements (D6.2)**
Program	Water Resources Stewardship - Environmental Enhancements
Project No.	26044004
Contact	Rechelle Blank rblank@valleywater.org

Removal of the Bolsa Road fish barrier will allow fish to travel upstream

PROJECT DESCRIPTION

This project removes a fish passage impediment at the Bolsa Road railroad bridge while incorporating geomorphic design features to restore bank stability and improve stream function. The project will accomplish the following objectives:

- Remediation of the fish passage impediment will allow access to approximately 22 miles of higher quality upstream habitat in the Uvas Watershed, as well as unimpeded access for out-migrant fish through the project site. A riffle pool system extending approximately 1,700 feet downstream of the Union Pacific Railroad bridge will also include geomorphic design features to restore bank stability and improve stream function.

This project meets the commitments of the voter approved Safe, Clean Water Program (SCW), Project D6.2. For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

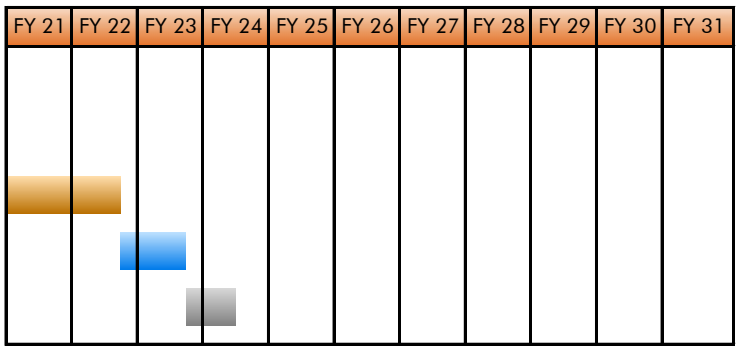
PROJECT LOCATION

Project Location

SCHEDULE & STATUS

July 2015 to December 2023

Phase	Cost
Plan	-
Permits	67
Design	268
Construct	5,962
Closeout	50
	6,347



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26044004-Bolsa Road Fish Passage Improvements (D6.2)	0	0	2,205	4,142	0	0	0	0	6,347
with inflation	0	0	2,205	4,385	0	0	0	0	6,590

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
26044004-Bolsa Road Fish Passage Improvements (D6.2)		0	0	2,205	4,385	0	0	0	0	6,590

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	6,590
Other Funding Sources	0
Total	6,590

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $20,000 per year beginning in FY23.

USEFUL LIFE: 50 Years

Project	**SCW Implementation: Fish Passage Improvements (Future D4)**
Program	Water Resources Stewardship - Environmental Enhancements
Project No.	26C40370
Contact	John Bourgeois jbourgeois@valleywater.org

This project seeks to help restore populations of native fish species, such as steelhead trout by removing impediments to the passage of fish for spawning

PROJECT DESCRIPTION

This project is a placeholder for future capital projects that have not been fully defined. The project(s) will implement the renewed Safe Clean Water (SCW) objectives for Project D4 Fish Habitat and Passage Improvement projects that remove barriers to fish passage. Funds will be moved from this placeholder into projects once they have been defined and vetted to ensure they meet the following program objectives:

- Improve habitat and passage for Steelhead and other native fish of Santa Clara County.

PROJECT LOCATION

No map is provided for this project

SCHEDULE & STATUS

July 2022 to June 2032

Data provided is based on preliminary information. Specific projects identified to move forward will require further refinement. A Phase schedule will be defined in the planning phase.

Phase	Cost
Plan	-
Design	-
Construct	6,813
Closeout	-
	6,813

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26C40370-SCW Implementation: Fish Passage Improvements (Future D4)	0	0	0	2,127	1,184	1,000	1,250	1,252	6,813
with inflation	0	0	0	2,127	1,184	1,000	1,250	1,252	6,813

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
26C40370-SCW Implementation: Fish Passage Improvements (Future D4)	0	0	0	0	2,127	1,184	1,000	1,250	1,252	6,813

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	6,813
Total	6,813

OPERATING COST IMPACTS

No operating cost impacts are anticipated from this project, as it is a placeholder project only.

USEFUL LIFE: Not Available

Project	**SCW Ogier Ponds Separation from Coyote Creek (Planning & Design) (D4.1b)**
Program	Water Resources Stewardship - Environmental Enhancements
Project No.	26044003
Contact	John Bourgeois jbourgeois@valleywater.org

Ogier Pond complex looking downstream. Coyote Creek enters in lower right. The pond is bordered by Coyote Creek Trail on the right, and a cherry orchard on the left.

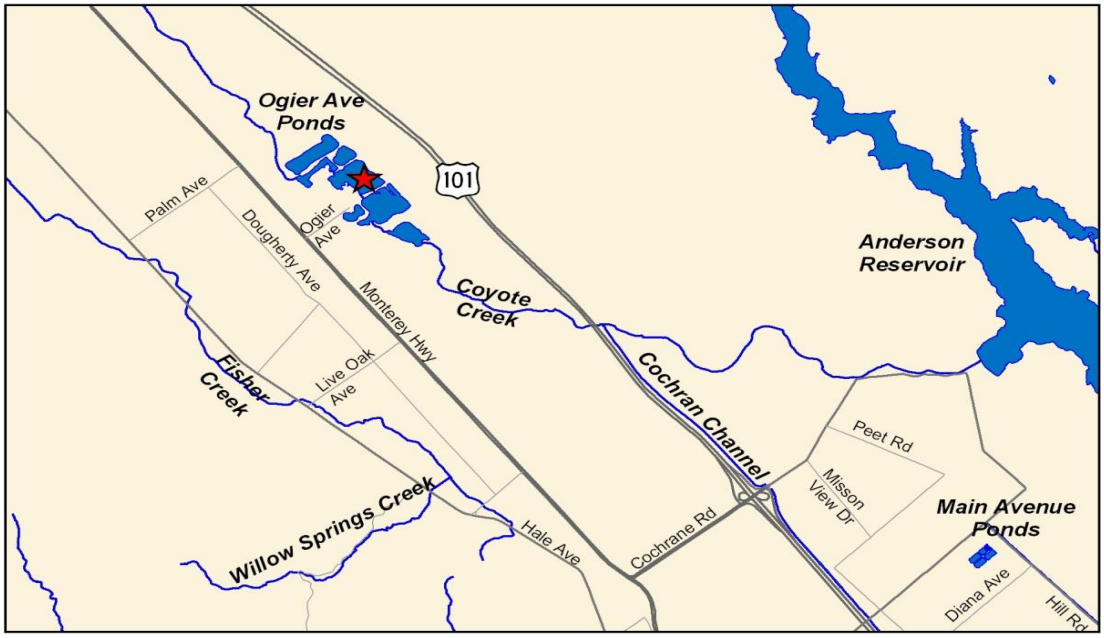
PROJECT DESCRIPTION

This project plans and designs possible improvements to separate Ogier Ponds from Coyote Creek where they meet, approximately 3,800 feet upstream of Ogier Avenue in San Jose, to meet the following objectives:

- Meet regulatory requirements for implementation of the Dam Maintenance Program so Valley Water can continue to maintain adequate water supply for Santa Clara Valley residents.
- Eliminate the temperature and predation traps and improve passage for Chinook salmon and steelhead.
- Preserve the existing open water habitat.
- Minimize impacts to the future recreational uses being planned by Santa Clara County.

This project was approved by the voters in the Safe, Clean Water Program (SCW) as Project D4.1b (planning & design phase). For a full description of the SCW benefits and KPIs, please visit www.valleywater.org.

PROJECT LOCATION

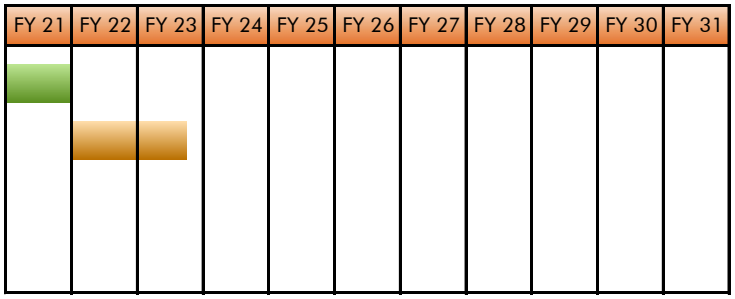


★ Project Location

SCHEDULE & STATUS

March 2019 through March 2023

Phase	Cost
Plan	1,761
Design	2,242
Construct	-
Closeout	-
	4,005



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
26044003-SCW Ogier Ponds Separation from Coyote Creek (Planning & Design) (D4.1b)	347	739	1,562	1,357	0	0	0	0	4,005
with inflation	347	739	1,562	1,482	0	0	0	0	4,130

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
26044003-SCW Ogier Ponds Separation from Coyote Creek (Planning & Design) (D4.1b)	1,598	0	512	1,050	1,482	0	0	0	0	4,130

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	4,130
Other Funding Sources	0
Total	4,130

OPERATING COST IMPACTS

No operating cost impacts are anticipated from this project, as it includes only the planning and design phases.

USEFUL LIFE: Not Available

Feasibility Studies

Project	**Watershed Habitat Enhancements**
Program	Water Resources Stewardship - Feasability Studies
Project No.	62044001
Contact	John Bourgeois jbourgeois@valleywater.org

Aerial view looking downstream of the Ogier Pond complex

PROJECT DESCRIPTION

This project provides for feasibility studies of possible habitat enhancements at the Ogier Ponds and Metcalf Ponds along Coyote Creek, and an evaluation and determination of priority for addressing various fish passage barriers along Stevens Creek. This project accomplishes the following objectives:

- Enhance a healthy steelhead trout and salmon population in the Coyote Creek Watershed.
- Provide adequate passage for adult steelhead trout to reach suitable spawning and rearing habitat and for out-migration of juveniles along Stevens Creek.

PROJECT LOCATION

Project Location

SCHEDULE & STATUS

April 2017 to June 2021

Phase	Cost
Plan	2,978
Permits	-
Design	33
Construct	-
Closeout	-
	4,204

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
62044001-Watershed Habitat Enhancements	3,057	1,147	0	0	0	0	0	0	4,204
with inflation	3,057	1,147	0	0	0	0	0	0	4,204

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
62044001-Watershed Habitat Enhancements	3,170	1,034	0	0	0	0	0	0	0	4,204

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed & Stream Stewardship Fund	4,204
Other Funding Sources	0
Total	4,204

OPERATING COST IMPACTS

No operating impacts are anticipated from this project because this is a feasibility study.

USEFUL LIFE: N/A

Mitigation

San Francisco Bay
Calaveras Reservoir
Lower Peninsula Watershed
Drains to Adjacent Counties
West Valley Watershed
Stevens Creek Reservoir
Vasona Reservoir
Guadalupe Watershed
Coyote Watershed
Lexington Reservoir
Calero Reservoir
Guadalupe Reservoir
Anderson Reservoir
Almaden Reservoir
Chesbro Reservoir
Coyote Reservoir
Pacheco Lake
Uvas Reservoir
Uvas/Llagas Watershed
Legend
Major Capital Improvements
Valley Water Watersheds
Santa Clara County

Project	**SMP Mitigation Stream and Watershed Land Preservation**
Program	Water Resources Stewardship – Mitigation
Project No.	62184001
Contact	John Bourgeois jbourgeois@valleywater.org

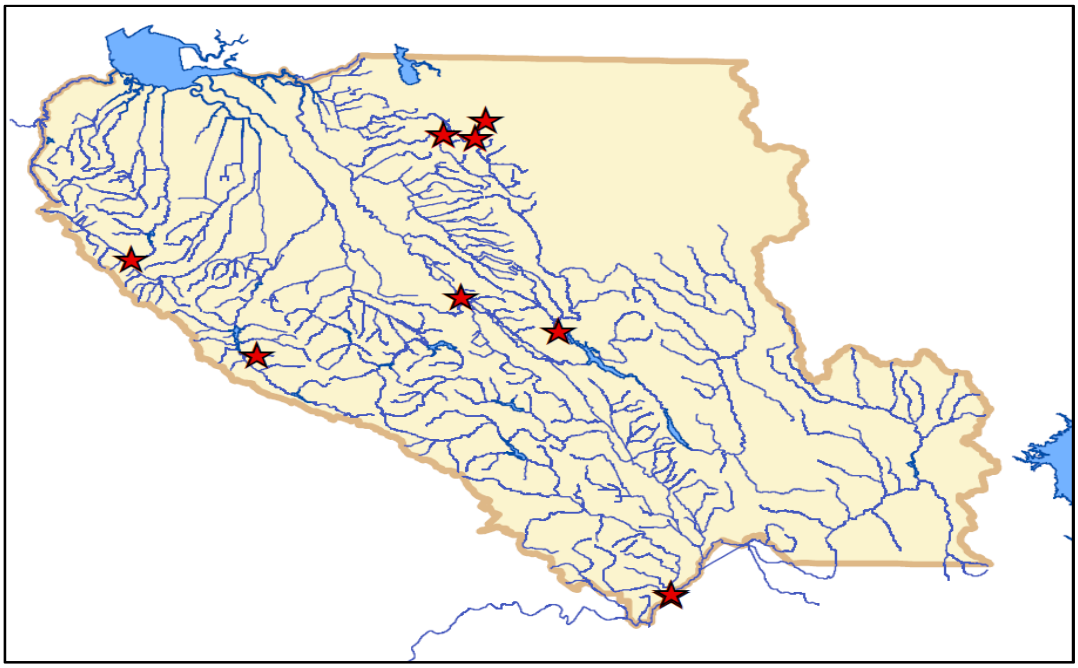
Creek-side settings such as this will be used for stream and watershed land preservation.

PROJECT DESCRIPTION

This project preserves streams and watershed lands in Santa Clara County and implements appropriate restorations in these lands to accomplish the following objectives:

- Provide Stream Maintenance Program (SMP) mitigation credits through preservation of streams and watershed lands to provide long-term protection of unique and valuable local stream resources and watersheds, in a largely self-sustaining setting. Approximately 110 acres of the total land preservation will be for protection of riparian and upland habitats that are known to support California red-legged frogs.
- Seek opportunities to partner with other organizations to accomplish the project objectives.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2004 to June 2021

Some environmental tasks in the planning phase continue through construction. Land acquisition is shown in the design phase, with restoration of site habitat shown in the construction phase.

Phase	Cost
Plan	1,940
Permits	3,621
Design	9,593
Construct	1,464
Closeout	150
	16,768

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
62184001-SMP Mitigation Stream and Watershed Land Preservation	15,804	964	0	0	0	0	0	0	16,768
with inflation	15,804	964	0	0	0	0	0	0	16,768

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
62184001-SMP Mitigation Stream and Watershed Land Preservation	16,769	0	1	0	0	0	0	0	0	16,769

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	16,769
Other Funding Source	0
Total	16,769

OPERATING COST IMPACTS

Operating costs will vary depending on the type of acquisition of ownership, and requirements for maintenance of each site. Long-term management costs of acquired properties are budgeted in the SMP Mitigation Site Management project.

USEFUL LIFE: 50+ Years

Buildings and Grounds

Building and Grounds Capital Improvements

BUILDINGS AND GROUNDS OVERVIEW

Valley Water's Almaden-Winfield campus occupies nearly 50 acres along Almaden Expressway in the City of San Jose. Valley Water manages the campus to ensure a healthful and safe work environment for employees and visitors. The campus includes 10 buildings, multiple parking lots, a corporation yard, landscaping, and other appurtenances.

With most of the buildings on campus over 30 years old, the rehabilitation needs have steadily increased in recent years. Valley Water administers an asset management program for its buildings and grounds infrastructure that includes a schedule for maintenance and rehabilitation to ensure that each facility functions as intended over its useful life.

Major Capital Improvements Identified in the CIP

- Facility Management, Small Capital Improvements
- Headquarters Operations Building

CIP PLANNING PROCESS AND FINANCIAL ANALYSIS

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a Draft CIP in February.

The Board then authorizes release of the Draft CIP to the public and local municipalities for review, conducts a public hearing, and approves the resolution to adopt the Final CIP in May.

Financial analysis of the following funding sources for buildings and grounds capital improvements was conducted to determine if there are limitations to funding all the proposed capital projects:

- Watershed and Stream Stewardship Fund
- General Fund
- Water Utility Enterprise Fund

The CIP Planning Process concluded that the Facility Management, Small Capital Improvements funding will be increased from $3 million per year to $4 million per year to meet Buildings and Grounds needs. Valley Water's Almaden Campus facilities are at or approaching full capacity. Staff, with the assistance of a consultant, are exploring alternatives to improve the facilities on the Almaden and Winfield campus, upgrade the employee work environment and maintain Valley Water facility assets. The Headquarters Operations Building project is a placeholder to fund the design and construction of the improvements approved by the Board.

Significant Project Updates from the Prior Year

The Small Capital Improvements, Facility Management Project increased in cost from $3 million per year to $4 million due to the updated cost estimates for capital maintenance of buildings, grounds and facilities on the Almaden and Winfield campus.

Building and Grounds Capital Improvements

The following table is a project funding schedule for buildings and grounds capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2020-21.

Buildings and Grounds Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
60204016	Facility Management, Small Capital Improvements	n/a	3,016	-	4,000	4,000	4,000	4,000	4,000	20,000	43,016
60204032	Headquarters Operations Building	20	-	1	2,000	2,173	6,544	2,385	2,492	-	15,614
	TOTAL	20	3,016	1	6,000	6,173	10,544	6,385	6,492	20,000	58,630

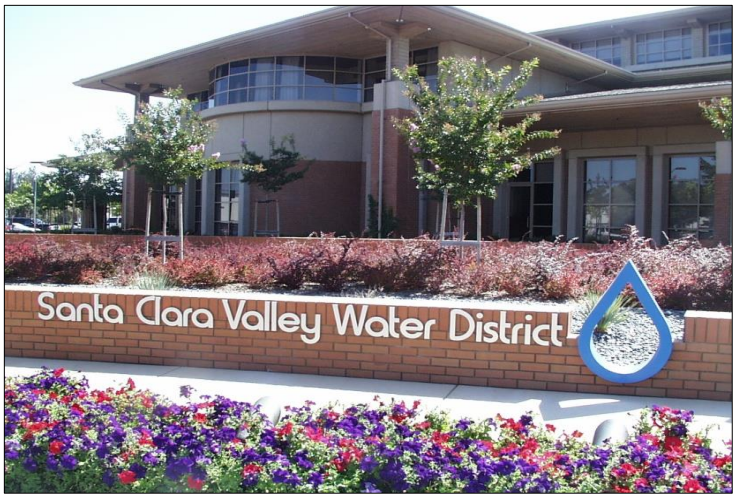
FY 2020-21 Funds to be reappropriated

Buildings and Grounds - Funding Sources ($K)

Fund Number	FUND NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
11	General Fund	20	3,016	1	6,000	6,173	10,544	6,385	6,492	20,000	58,630
	TOTAL	20	3,016	1	6,000	6,173	10,544	6,385	6,492	20,000	58,630

FY 2020-21 Funds to be reappropriated

Project	**Facility Management, Small Capital Improvements**
Program	Buildings and Grounds
Project No.	60204016
Contact	Ken Wong kwong@valleywater.org

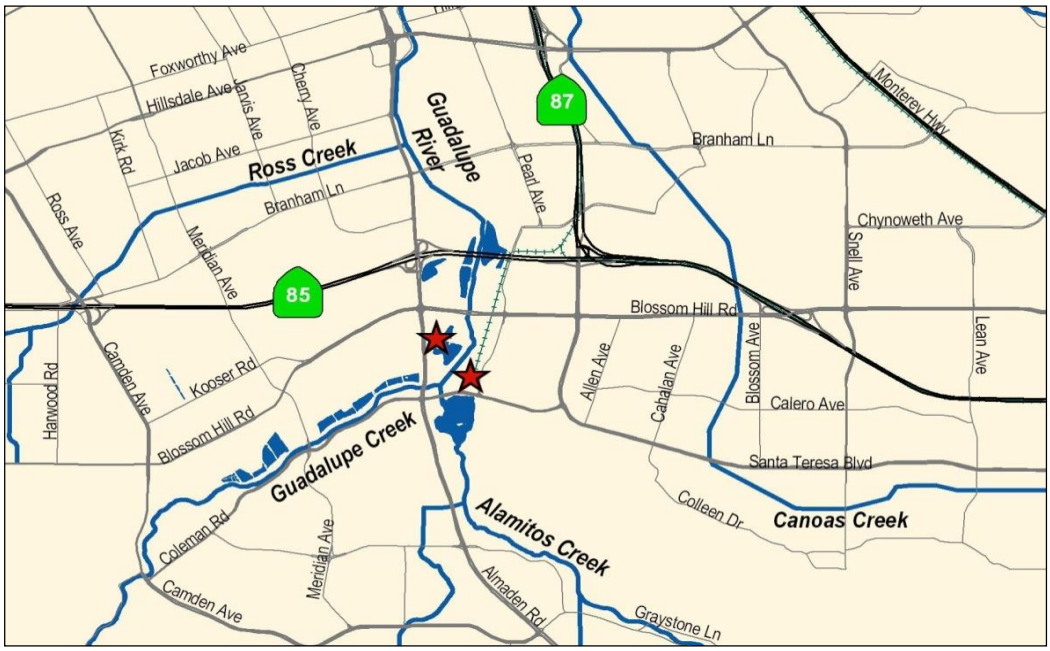


Front view of the Headquarters building at the Almaden Campus

PROJECT DESCRIPTION

This project reserves funding for capital maintenance and replacement of buildings, grounds, and facilities on the Almaden and Winfield campus, to provide a healthy and safe environment for staff and visitors.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

Improvements will be managed on an as-needed basis throughout the year.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
60204016-Facility Management, Small Capital Improvements	n/a	3,016	4,000	4,000	4,000	4,000	4,000	20,000	43,016
with inflation	n/a	3,016	4,000	4,000	4,000	4,000	4,000	20,000	43,016

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
60204016-Facility Management, Small Capital Improvements	n/a	3,016	0	4,000	4,000	4,000	4,000	4,000	20,000	43,016

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	43,016
Other Funding Source	0
Total	43,016

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Headquarters Operations Building**
Program	Buildings and Grounds
Project No.	60204032
Contact	Ken Wong kwong@valleywater.org

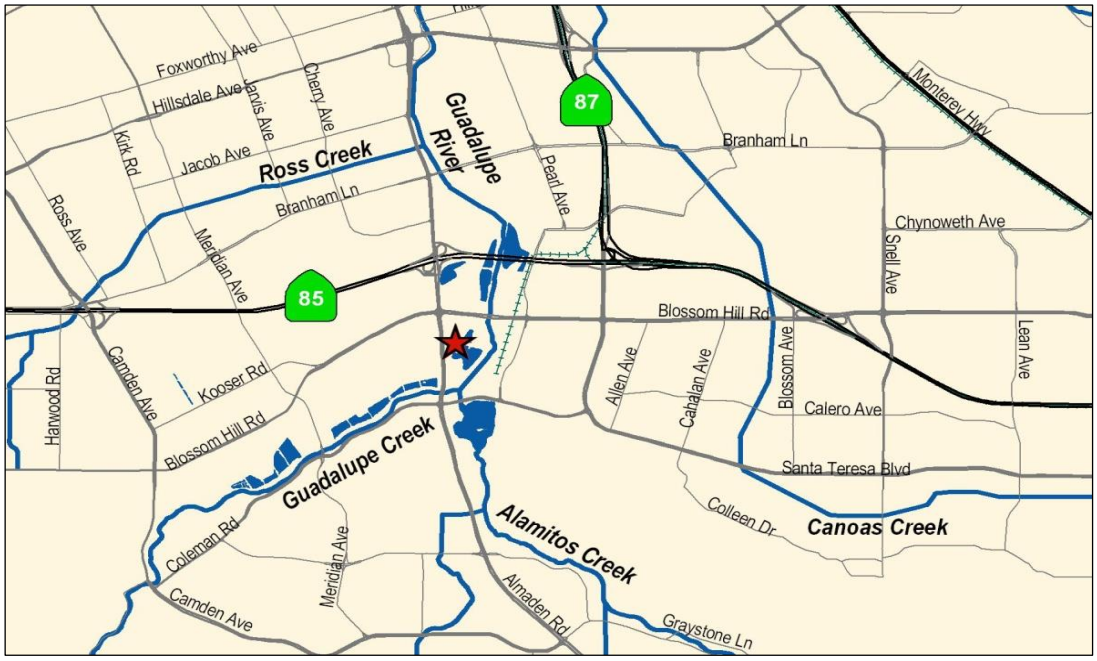
Existing Maintenance Building

PROJECT DESCRIPTION

This project is a placeholder to plan, design, and construct future facilities or improvements to existing facilities. This project accomplishes the following objectives:

- Replace office space in the Maintenance Office Building to provide a safe and healthy work environment.
- Provide adequate and sufficient space to enable Valley Water to efficiently perform its core business.

PROJECT LOCATION

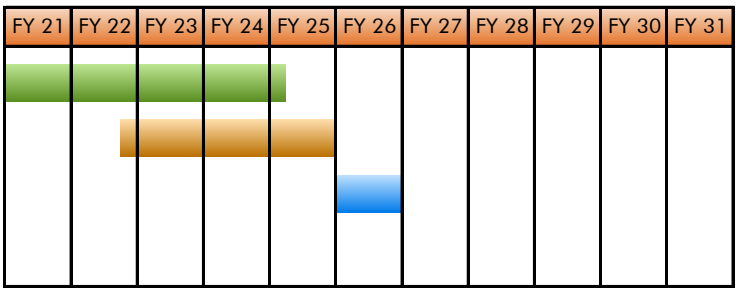


★ Project Location

SCHEDULE & STATUS

July 2014 to June 2026

Phase	Cost
Plan	2,066
Design	2,030
Construct	9,803
Closeout	50
	13,949



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
60204032-Headquarters Operations Building	19	0	2,000	1,990	5,940	2,000	2,000	0	13,949
with inflation	19	0	2,000	2,173	6,544	2,385	2,492	0	15,613

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
60204032-Headquarters Operations Building	20	0	1	1,999	2,173	6,544	2,385	2,492	0	15,613

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	15,613
Other Funding Sources	0
Total	15,613

OPERATING COST IMPACTS

Operating costs will be determined during the design phase.

USEFUL LIFE: Not Available

Information Technology

Information Technology Capital Improvements

INFORMATION TECHNOLOGY OVERVIEW

Valley Water relies on its software systems and technology infrastructure to help manage its core responsibilities of water supply, flood protection, and environmental stewardship. Recognizing the importance of Information Technology to its success, Valley Water created a new IT Strategic Plan in 2019. The strategy extends through 2024 and consists of 67 capital and non-capital projects focusing on the following critical pillars: Data and Analytics, Modernization, Partnership and Alignment, and Security.

In 2014, the Information Technology Capital Fund was created. It accounts for the costs to acquire, and install capital information technology projects with Valley Water-wide benefit. Projects include acquisition and replacement of computers, networks, and communications systems as well as major investments in enterprise software systems and cybersecurity.

Costs are billed to user departments as Intra-District Computer Equipment Charges. Billing rates will be set to smooth charges over time by recovering current costs and accumulating reserves for major planned future projects. Current year charges or a combination of current year charges and reserves may be used to fund authorized projects. The purpose of this fund is to provide adequate resources while avoiding peaks and valleys in charges to user departments.

Major Capital Improvements Identified in the CIP

- Data Consolidation
- Information Technology Disaster Recovery
- ERP System Implementation
- Telephone System Voiceover IP
- Software Upgrades & Enhancements
- WTP-WQL Network Equipment

CIP PLANNING PROCESS AND FINANCIAL ANALYSIS

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a Draft CIP in February.

The Board then authorizes release of the Draft CIP to the public and local municipalities for review, conducts a public hearing, and approves the resolution to adopt the Final CIP in May.

Financial analysis of the Information Technology Capital Fund was conducted to determine if there are limitations to funding the planned capital projects.

Through the CIP Planning Process and financial analysis, it was determined that funding needs for approved Information Technology projects can be met.

Information Technology Capital Improvements

The following table is a project funding schedule for information technology capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2020-21.

Information Technology Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
73274009	Data Consolidation	1,083	74	(1)	76	-	-	-	-	-	1,233
73274001	IT Disaster Recovery	2,396	-	-	206	-	-	-	-	-	2,602
73274002	ERP System Implementation	14,608	2,258	1,818	462	248	-	-	-	-	17,576
73274008	Software Upgrades & Enhancements	3,184	871	-	345	2,036	1,248	405	504	6,779	15,372
73274012	Telephone System Voiceover IP	1,116	132	1	-	-	-	-	-	-	1,248
73274011	E-Discovery Management System	267	-	-	-	-	-	-	-	-	267
95274003	WTP-WQL Network Equipment	2,908	-	-	89	1,391	2,803	798	287	3,280	11,556
	TOTAL	25,562	3,335	1,818	1,178	3,675	4,051	1,203	791	10,059	49,854

FY 2020-21 Funds to be reappropriated

Information Technology - Funding Sources ($K)

Fund Number	FUND NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
61	Water Utility Enterprise Fund	2,908	-	-	89	1,391	2,803	798	287	3,280	11,556
73	Information Technology Fund	22,654	3,335	1,818	1,089	2,284	1,248	405	504	6,779	38,298
	TOTAL	25,562	3,335	1,818	1,178	3,675	4,051	1,203	791	10,059	49,854

FY 2020-21 Funds to be reappropriated

Project	**Data Consolidation**
Program	Information Technology
Project No.	73274009
Contact	Mike Cook mcook@valleywater.org

Data consolidation will reduce Valley Water's data footprint

PROJECT DESCRIPTION

This project plans, designs, and implements improvements to Data management to accomplish the following objectives:

- Implement an enterprise content management (ECM) system with strong business intelligence.
- Move from an applications-centric model to a data-centric model, thereby removing silos of data stores.
- Manage data as a strategic core asset, with ongoing process and management control for data analytics.
- Provide and gain rapid insights using data analytics to solve complex business problems.
- Reduce the overall data footprint.

PROJECT LOCATION

No Map is provided for this project

SCHEDULE & STATUS

July 2015 to June 2023

Phase	Cost
Plan	-
Design	-
Construct	1,233
Closeout	-
	1,233

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
73274009-Data Consolidation	121	1,037	75	0	0	0	0	0	1,233
with inflation	121	1,037	75	0	0	0	0	0	1,233

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
73274009-Data Consolidation	1,083	74	-1	76	0	0	0	0	0	1,233

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Information Technology Fund	1,233
Other Funding Sources	0
Total	1,233

OPERATING COST IMPACTS

The enterprise content management system will require a software license agreement at an approximate cost of $100,000 per year. The cost is including in the Software Maintenance and Licenses project. Any future upgrade costs would be budgeted in the Information Technology Fund.

USEFUL LIFE: 3-5 Years

Project	**Information Technology Disaster Recovery**
Program	Information Technology
Project No.	73274001
Contact	Michael Cook mcook@valleywater.org

Existing Data Center that houses critical servers supporting Valley Water's normal operations

PROJECT DESCRIPTION

This project plans, designs, and implements improvements to Information Technology to accomplish the following objectives:

- Enable coordinated, rapid recovery from a disaster.
- Reduce Valley Water's business risk exposure.

PROJECT LOCATION

No Map is provided for this project

SCHEDULE & STATUS

July 2014 to June 2022

Phase	Cost
Plan	14
Design	12
Construct	2,576
Closeout	-
	2,602

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
73274001-Information Technology Disaster Recovery	684	1,712	206	0	0	0	0	0	2,602
with inflation	684	1,712	206	0	0	0	0	0	2,602

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
73274001-Information Technology Disaster Recovery	2,396	0	0	206	0	0	0	0	0	2,602

FUNDING SOURCES

(in thousands $)

SCVWD Information Technology Fund	2,602
Other Funding Sources	0
Total	2,602

OPERATING COST IMPACTS

Ongoing annual costs will be determined at the completion of construction, and will be based on implemented solutions.

USEFUL LIFE: Not Available

Project	**ERP System Implementation**
Program	Information Technology
Project No.	73274002
Contact	Michael Cook mcook@valleywater.org

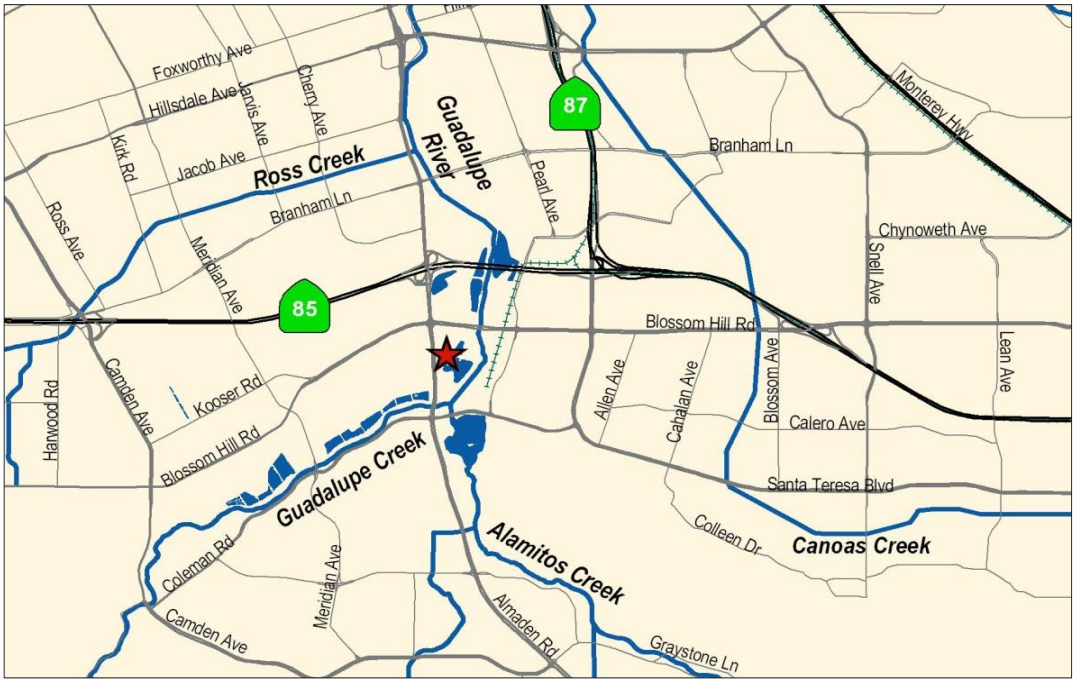
The new ERP system aims to increase operational efficiency

PROJECT DESCRIPTION

This project selects and implements a new cloud-based, integrated, proven and state-of-the-art Enterprise Resource Planning (ERP) system to replace the current out-of-date ERP application. Below are the objectives:

- Provide up-to-date functionalities for Finance, HR, Payroll, Contract, Procurement, Inventory, and Warehouse areas, and to reengineer business processes to ensure that Valley Water takes full advantage of the software's inherent capabilities.
- Increase operational effectiveness, reduce costs and improve management decision-making processes by increasing the ability to access and analyze data.
- Leverage a cloud platform to improve the availability of Financials, Supply Chain, Human Resources, and Payroll data.
- Minimize customizations and adopt best standard business practices during implementation.

PROJECT LOCATION

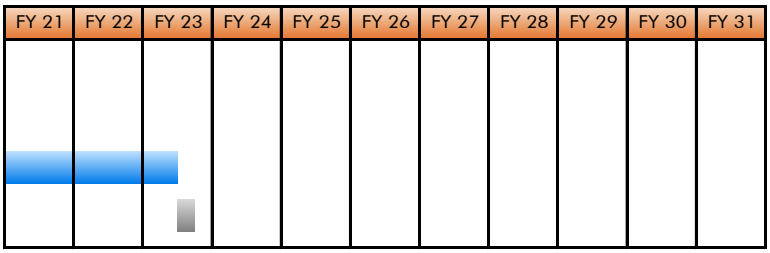


★ Project Location

SCHEDULE & STATUS

July 2013 to March 2023

Phase	Cost
Plan	1,438
Design	-
Construct	17,316
Closeout	-
	18,754



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY20**	**FY21**	**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**Future**	
60274062-ERP System Implementation	1,199	0	0	0	0	0	0	0	1,199
with inflation	1,199	0	0	0	0	0	0	0	1,199
73274002-ERP System Implementation	10,597	4,451	2,280	227	0	0	0	0	17,555
with inflation	10,597	4,451	2,280	248	0	0	0	0	17,576
TOTAL	11,796	4,451	2,280	227	0	0	0	0	18,754
with inflation	11,796	4,451	2,280	248	0	0	0	0	18,775

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY20**	**FY21**		**FY22**	**FY23**	**FY24**	**FY25**	**FY26**	**Future**	
60274062-ERP System Implementation	1,199	0	0	0	0	0	0	0	0	1,199
73274002-ERP System Implementation	14,608	2,258	1,818	462	248	0	0	0	0	17,576
TOTAL	15,807	2,258	1,818	462	248	0	0	0	0	18,775

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	1,199
SCVWD Information Technology Fund	17,576
Total	**18,775**

OPERATING COST IMPACTS

Upon completion of this project, one full-time employee will be required within the Software Services Unit for expanded technical support of the new system modules and features, and to continue with operational refinements, enhancements, integrations, report development.

USEFUL LIFE: 5 Years

Project	**Software Upgrades & Enhancements**
Program	Information Technology
Project No.	73274008
Contact	Michael Cook mcook@valleywater.org

Existing systems will be upgraded and enhanced

PROJECT DESCRIPTION

This project provides upgrade and enhancement services to existing Valley Water systems, including the enterprise resource planning system, geographic information system, enterprise asset management software Maximo, the Oracle database management system, internal and external Valley Water websites, and related databases. Previously, software upgrades were budgeted to their individual respective maintenance and support projects. This new project aims to consolidate activities into a single project for better organization, planning and budgeting purposes.

The objective of this project is to regularly upgrade existing software packages to:

- Stay in compliance and reduce risks associated with being on a version that is no longer supported.
- Leverage new functionalities of up-to-date software.

PROJECT LOCATION

No Map is provided for this project.

SCHEDULE & STATUS

July 2015 to June 2032

Phase	Cost
Plan	325
Design	221
Construct	11,798
Closeout	-
	13,587

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
73274008-Software Upgrades & Enhancements	1,887	2,168	345	1,919	1,142	360	435	5,331	13,587
with inflation	1,887	2,168	345	2,036	1,248	405	504	6,778	15,372

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
73274008-Software Upgrades & Enhancements	3,184	871	0	345	2,036	1,248	405	504	6,778	15,372

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Information Technology Fund	15,372
Other Funding Sources	0
Total	15,372

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Telephone System Voice Over IP**
Program	IT
Project No.	73274012
Contact	Michael Cook mcook@valleywater.org

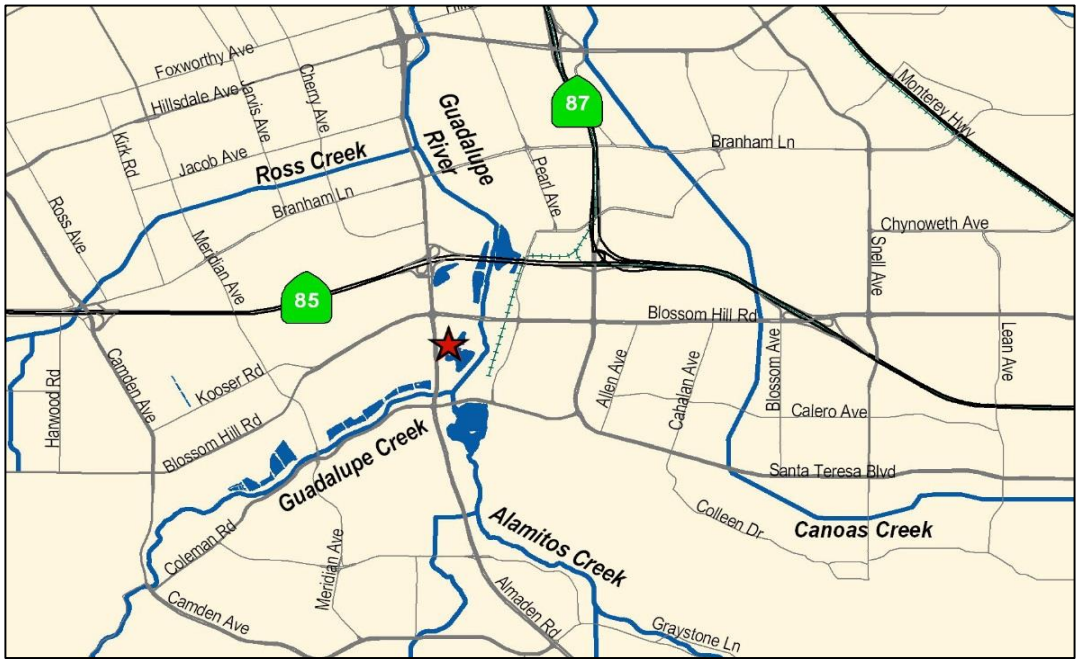
The current Avaya Telephone System was first installed in the Administration Building in 1986

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to Valley Water's Telephone system to accomplish the following objective:

- Replace current Avaya digital phone stations with new Avaya voice over IP telephone stations.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2019 to December 2021

Phase	Cost
Plan	-
Design	-
Construct	1,248
Closeout	-
	1,248

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
73274012-Telephone System Voice Over IP	0	1,247	1	0	0	0	0	0	1,248
with inflation	0	1,247	1	0	0	0	0	0	1,248

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
73274012-Telephone System Voice Over IP	1,116	132	1	0	0	0	0	0	0	1,248

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

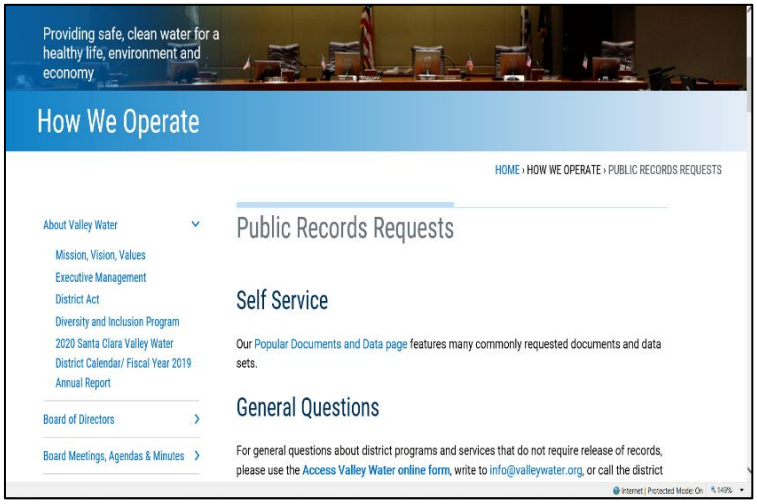
SCVWD Information Technology Fund	1,248
Other Funding Sources	0
Total	1,248

OPERATING COST IMPACTS

N/A

USEFUL LIFE: 7-10 Years

Project	**E-Discovery Management System**
Program	Information Technology
Project No.	73274011
Contact	Michael Cook mcook@valleywater.org



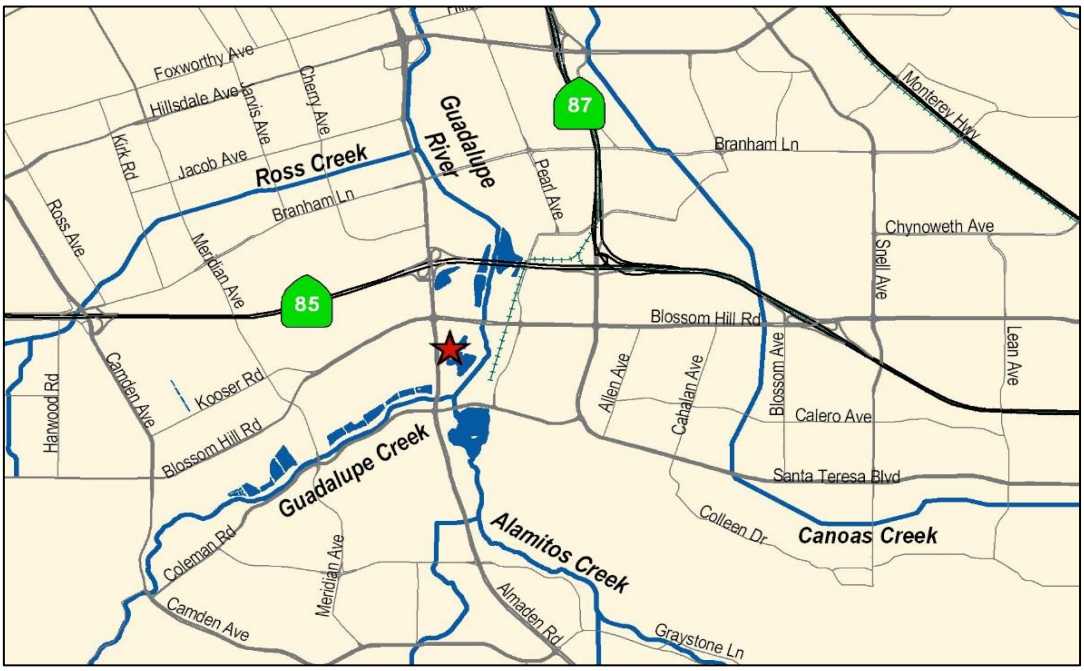
Screenshot of the Valley Water's Public Records web page

PROJECT DESCRIPTION

This project plans, designs, and implements a software solution to accomplish the following objectives:

- Issue formal notification of litigation holds.
- Search and locate/identify electronically stored information (ESI).
- Collect, preserve, process, review, and analyze ESI.
- Produce ESI in context to litigation, in response to California Public Records requests, and other government investigations.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

April 2017 to June 2020

Phase	Cost
Plan	-
Design	-
Construct	267
Closeout	-
	267

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
73274011-E-Discovery Management System	267	0	0	0	0	0	0	0	267
with inflation	267	0	0	0	0	0	0	0	267

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
73274011-E-Discovery Management System	267	0	0	0	0	0	0	0	0	267

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Information Technology Fund	267
Other Funding Sources	0
Total	267

OPERATING COST IMPACTS

Operating cost impacts of the projet includes maintenance of the Exterro subscription, and are estimated to be $200,000 per year, beginning in FY21.

USEFUL LIFE: Not available

Project	**WTP-WQL Network Equipment**
Program	Information Technology
Project No.	95274003
Contact	Michael Cook mcook@valleywater.org

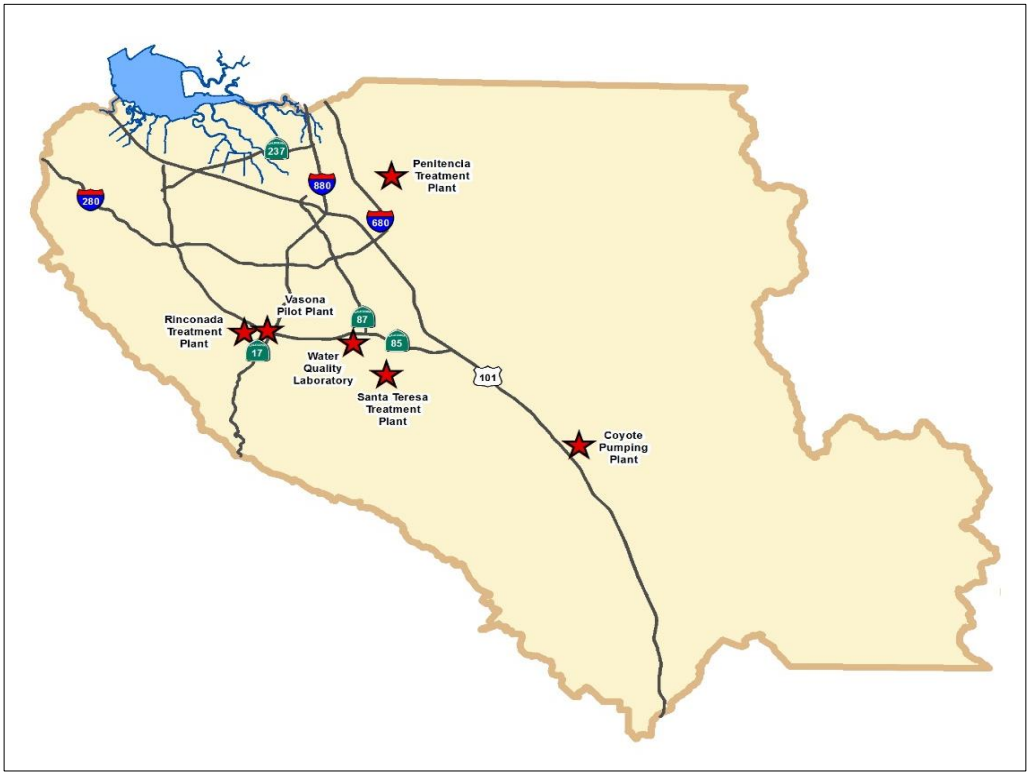
This project replaces and upgrades existing network structures

PROJECT DESCRIPTION

This project plans, designs, and implements upgrades to the existing network to ensure that Valley Water has a current and robust computer network to accomplish the following objectives:

- Deliver greater access speeds.
- Restore vendor maintenance.
- Improve software application performance.
- Provide a path to meet future data communications needs.

PROJECT LOCATION



Project Location

SCHEDULE & STATUS

July 2014 to June 2032

Phase	Cost
Plan	-
Design	-
Construct	9,920
Closeout	-
	9,920

FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY20	FY21	FY22	FY23	FY24	FY25	FY26	Future	
95274003-WTP-WQL Network Equipment	1,451	1,457	89	1,274	2,456	669	230	2,294	9,920
with inflation	1,451	1,457	89	1,391	2,803	798	287	3,281	11,556

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY20	FY21		FY22	FY23	FY24	FY25	FY26	Future	
95274003-WTP-WQL Network Equipment	2,908	0	0	89	1,391	2,803	798	287	3,281	11,556

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	11,556
Other Funding Sources	0
Total	11,556

OPERATING COST IMPACTS

Upon completion of this project operating costs are anticipated to increase by $37,000 beginning in FY33 with an increase of 3% each year after that to pay for hardware maintenance agreements.

USEFUL LIFE: 10 Years

Financial Planning

Financial Planning and Summary

CIP FINANCIAL PLANNING

Board policy regarding financial planning and budgeting provides the foundation for CIP financial planning. The policy states:

Executive Limitation EL-4, "Financial planning for any fiscal year shall be aligned with the Board's Ends, not risk fiscal jeopardy, and be derived from a multi-year plan."

> Executive Limitation EL-4.3, "A BAO shall include credible projection of revenues and expenses, separation of capital and operational items, cash flow, and disclosure of planning assumptions."
>
> Executive Limitation EL-4.4, "A BAO shall plan the expenditure in any budget period within the funds that are conservatively projected to be received or appropriated from reserves in that period."

KEY REVENUES SOURCES

Water Charges

- Water charges include a ground water production charge, which is equivalent to the basic user charge, and is associated with the benefit of managing groundwater supplies. The groundwater charge is applied to water extracted from the groundwater basin in Zones W-2, W-5, W-7 and W-8. The basic user charge is applied to other types of water delivered by Valley Water. There are two rates: one for agricultural water and one for municipal and industrial water.
- A treated water surcharge, which is associated with the benefit of receiving treated water, is levied in addition to the basic user charge on water delivered from Valley Water's water treatment plants.

Property Tax

Santa Clara County allocates property tax revenue to Valley Water from ad valorem taxes levied on land within the county.

Special Parcel Tax

In November 2020, voters in Santa Clara County overwhelmingly approved Measure S, a renewal of Valley Water's Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water Program) which was originally approved in 2012 (2012 Safe, Clean Water Program). The measure needed 66.67% to pass and garnered more than 75% of votes at the November 2020 election. The renewed Safe, Clean Water Program identifies six key community priorities, established in collaboration with tens of thousands of residents and stakeholders. The renewed Safe, Clean Water program will become effective in Fiscal Year 2021-2022 (FY22), starting on July 1, 2021, following the conclusion of the 2012 Safe, Clean Water Program in FY21. The renewed Safe, Clean Water Program parcel tax will provide approximately $826 million in the first 15 years of the program.

Benefit Assessments

Benefit assessment revenue consists of levies approved by voters in 1986 and 1990 to support financing for flood control capital improvements. The ongoing budget amount is approximately 1.25 times the duly authorized annual debt service requirements for each watershed.

Capital Reimbursements

Capital reimbursement revenues are from local, state and federal partners for capital projects carried on cooperatively by Valley Water and its partners. Valley Water fronts the partners' shares of capital expenditures and receives reimbursements from the partners at a later time.

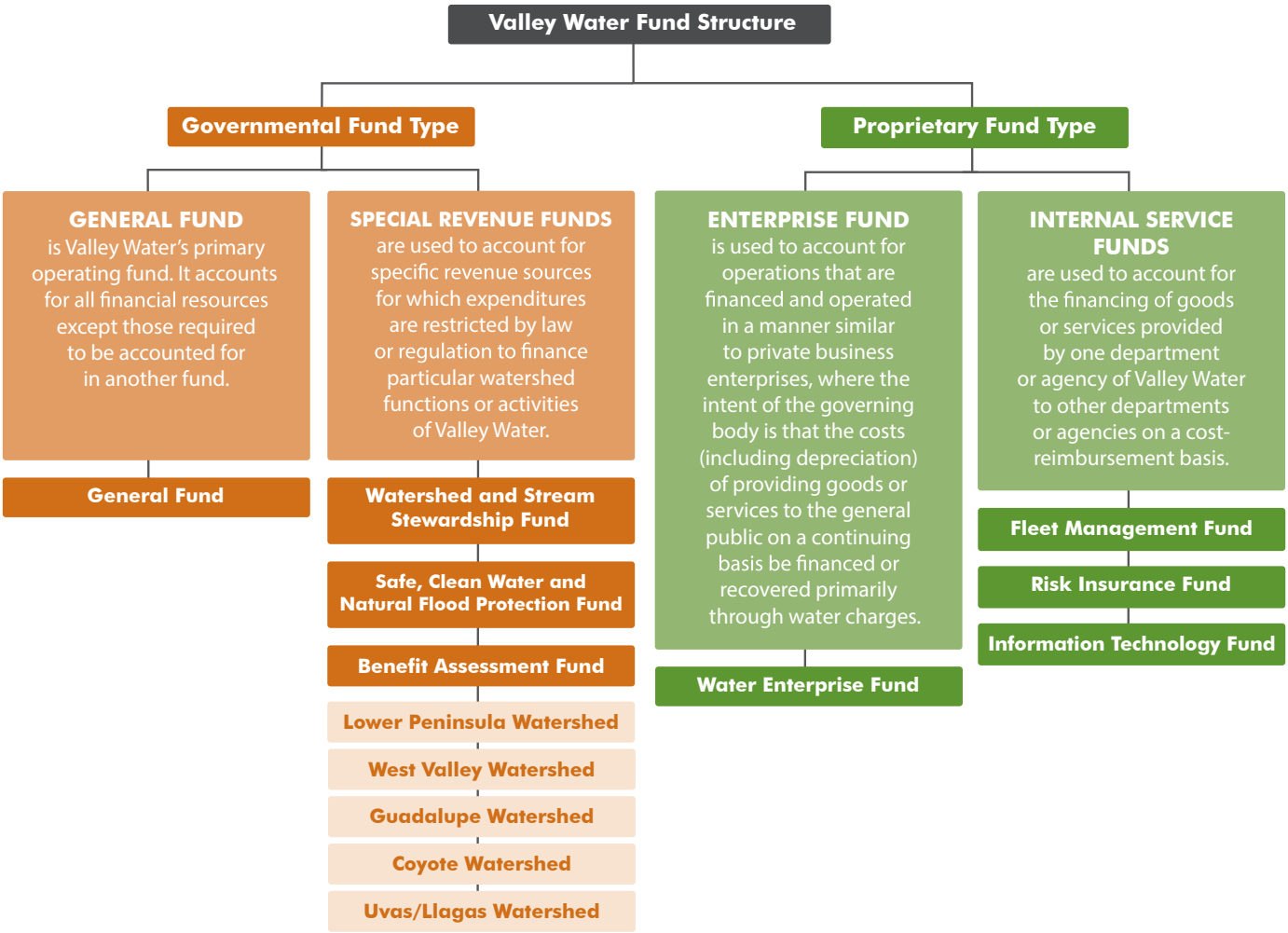
Interest

Interest is earned from Valley Water's investment portfolio.

Financial Planning and Summary

Valley Water Fund Structure

Valley Water's revenue sources are organized into eight funds. Each fund has specific revenue sources according to their intended purposes, and each fund is an independent accounting entity with a self-balancing set of accounts comprised of its assets, liabilities, fund equity, revenue, and expenditures or expenses, as appropriate.



Revenue by Fund ($K)

FUND NAME	FY20 Actual	FY21 Adopted	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31
Water Utility Enterprise	313,336	311,602	335,939	384,253	420,796	533,384	573,027	615,909	663,396	613,211	666,443	724,874
Watershed Stream Stewardship	114,731	119,570	123,410	126,536	130,312	122,604	126,558	130,405	124,948	129,693	134,312	140,112
Safe, Clean Water and Natural Flood Protection	64,385	63,971	56,226	140,568	70,143	51,911	52,895	53,740	54,624	55,458	56,589	57,741
Benefit Assessment	13,440	12,369	13,454	13,444	13,443	6,850	6,855	6,852	6,855	6,856	6,854	-
General	9,662	9,728	9,983	10,302	10,658	11,025	11,352	11,725	12,071	12,428	12,795	13,211
Internal Service	989	480	358	369	370	371	372	451	452	453	456	537
TOTAL	516,544	517,719	539,369	675,473	645,721	726,145	771,059	819,082	862,346	818,099	877,450	936,474

Note: Internal Service is the combination of the Fleet Management, Information Technology Fund, and Risk Funds

Financial Planning and Summary

Revenue Projections

Valley Water regularly updates the projected revenues based on the best information available.

- Revenues from water charges are estimated based on projections of water demand for residential, commercial, industrial, and agricultural consumption combined with rates per acre-foot. Rates are set at a level that will provide revenue needed to meet operating and capital needs.
- Revenues from property taxes, special parcel taxes, and benefit assessments are estimated based on projection of growth in assessed value and number of developed parcels in Santa Clara County.
- Interest earnings are estimated based on the projected average cash balances during the fiscal year and expected yield from Valley Water's investment portfolio.
- Revenue from capital partnerships are estimated based on the terms of agreements executed by Valley Water and its partners.

Expenditure Projections

Valley Water regularly updates operations and capital expenditures based on the best information available.

Each capital project cost estimate includes the yearly expenditures through completion based on the project's scope and schedule. The expenditures are monitored regularly and updated when necessary, for example, when there are any changes to a project's scope or schedule. A management review process is enforced to ensure only justified expenditure changes are approved.

Operations cost projections for the next 15 years are updated annually and are based on assumptions derived from Valley Water's strategic plans, including the impact of completed capital projects. Capital and operations expenditure projections are the foundation for the development of Valley Water's budget.

Financial Analysis

Valley Water regularly performs financial analysis to comply with the Board's Financial Planning/Budgeting Policy. Valley Water uses sophisticated financial models to perform the analysis for each fund. The projected operation expenditures, capital expenditures, and revenues for the next ten years are incorporated into the financial models to analyze the health of each fund under various economic scenarios. This process assures that funds will be available when needed to implement the CIP.

The financial analysis generates alternatives for funding capital projects based on the available yearly revenues from all sources allocated to the capital program, and the debt financing capacity of each fund. The financial analysis establishes the parameters within which the capital project schedule is developed.

Debt Projections and Debt Ratios

Debt is managed at Valley Water depending on the type of business involved. The SCW program approved by the voters in 2012 and 2020 includes the authority to issue debt against future revenue in order to accelerate completion of projects sooner. Debt service on outstanding benefit assessment debt is funded by benefit assessments levied on property owners in the county.

The water utility business, on the other hand, uses a combination of short-term and long-term debt financing in conjunction with pay-as-you-go financing to lessen impacts to the water rates caused by fluctuations in capital funding needs. In the 1984 general election, Measure B was passed by the voters, which gave Valley Water's Water Utility Enterprise the authority to issue bonds on an "as required" basis. Debt service on outstanding debt is paid from water revenues. Bond covenants stipulate that Valley Water must maintain a 1.25 debt coverage ratio on all parity bonds. The long-term financial analysis targets a debt coverage ratio of 2.0, which helps establish the parameters for capital planning that ensure bond covenants will be met.

Valley Water currently enjoys credit ratings that are among the highest for a water-related government entity in the state of California, which helps keep interest costs borne by Valley Water at a minimum.

Relationship between the Operating Budget and CIP

Whenever Valley Water commits to capital improvements, there is a potential for associated long-range commitments of operating funds. For example, if 20-year bonds are issued to finance capital needs, then the operating funds will need to budget debt service payments for the next two decades. For this reason, it is important to evaluate capital commitments in the context of their long-range operating impact.

In addition to the long-range debt service payments, some capital projects affect future operating budgets either positively or negatively due to an increase or decrease in maintenance and operation costs. Such impacts vary widely from project to project and are evaluated individually during the project development stage. Valley Water is committing to a potential change in the operating budget when a capital project is approved.

The projected debt service payments and the positive or negative operating budget impacts are important factors considered in Valley Water's financial analysis.

This chart identifies the operating budget impacts to each fund from projected debt service payments. The debt service payment in the Watershed Stream Stewardship Fund is a total of payments associated with each individual watershed.

Debt Payment Schedule ($K)

Fund	FY21	FY22	FY23	FY24	FY25	FY26
General Fund	474	473	472	472	-	-
Benefit Assessment Fund	11,094	11,090	11,086	11,087	5,757	5,762
Safe, Clean Water and Natural Flood Protection Fund	1,750	7,050	12,117	14,842	16,724	17,709
Water Utility Enterprise Fund	48,424	52,561	62,740	72,261	76,720	88,118
Information Technology Fund	-	-	-	-	-	-
TOTAL	61,742	71,175	86,414	98,662	99,201	111,590

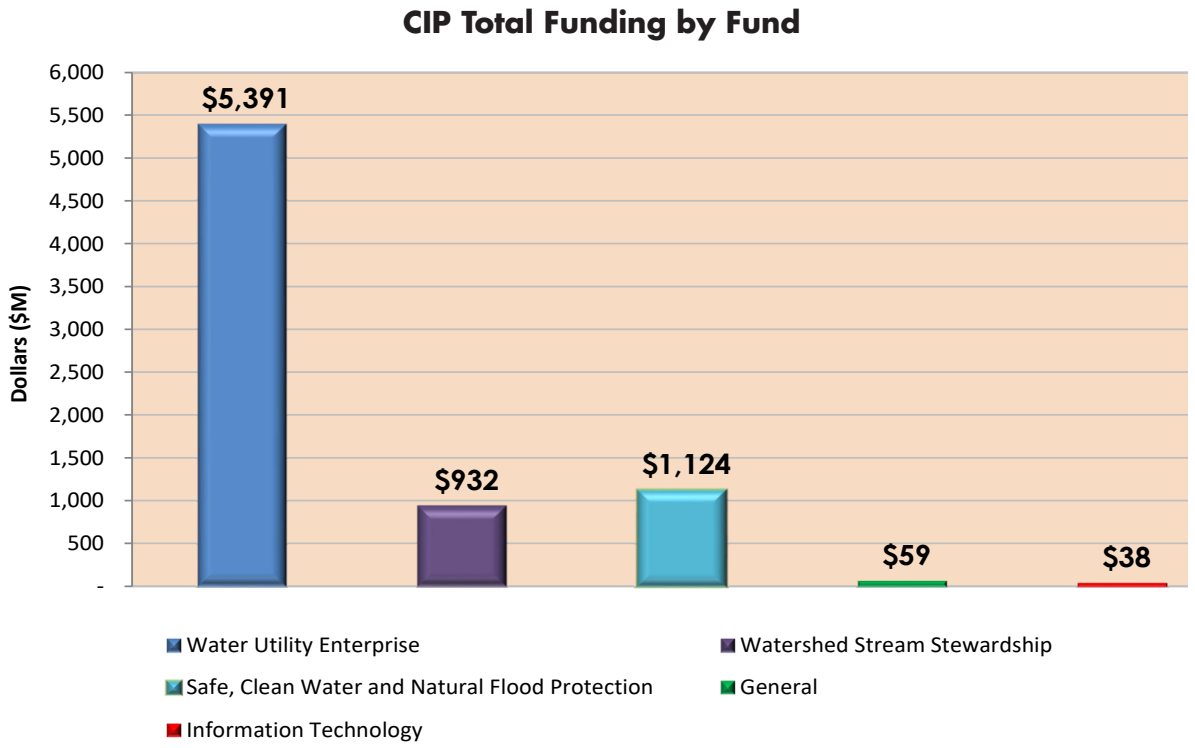
This chart identifies the net operating budget impacts to each fund resulting from annual maintenance and/or operating costs for newly completed capital projects. Additional information regarding operating impacts related to individual projects can be found on the project pages.

Estimated Operating Impacts ($K)

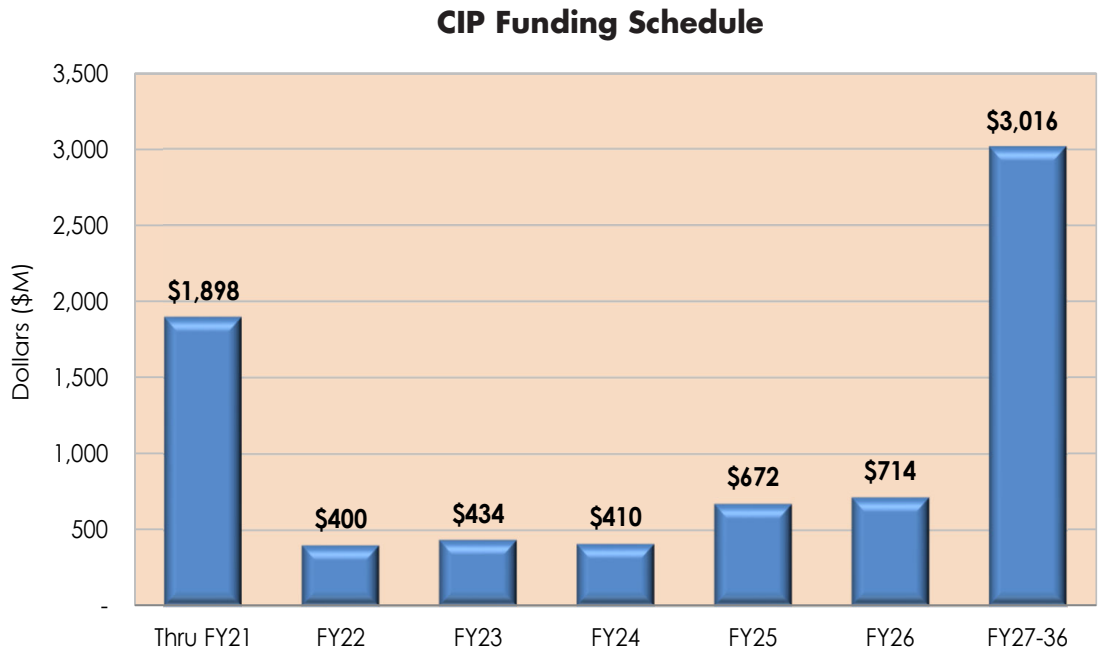
Fund	FY21	FY22	FY23	FY24	FY25	BEYOND
General Fund	-	-	-	-	-	-
Watershed Stream Stewardship Fund	500	526	741	(592)	(592)	(592)
Safe, Clean Water and Natural Flood Protection Fund	100	480	480	1,015	1,805	4,665
Water Utility Enterprise Fund	33	41	41	(208)	(138)	1,318
Information Technology Fund	200	200	379	384	390	396
TOTAL	833	1,247	1,641	599	1,465	5,787

CIP FUNDING SUMMARY

Of the $7.545 billion in total Valley Water funding for current and future projects, the Board appropriated $1.898 billion in prior years through June 30, 2021 (the end of fiscal year 2020-21). This year's CIP process identified additional funding needs of $5.646 billion to complete the projects in the CIP, with $400 million allocated in fiscal year 2021-22 and a total of $5.246 billion proposed for future years.



The needed $7.545 billion to implement the 68 capital projects as defined in the CIP are funded by five of Valley Water's funds.



This chart shows the funding schedule for the $7.545 billion to implement the 68 capital projects.

CIP Project Funding Schedule for Water Utility Enterprise Fund ($K)

PROJECT NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
Almaden Dam Improvements	14,604	168	346	-	-	-	104	125	51,011	66,012
Anderson Dam Seismic Retrofit (C1)	62,940	36,135	-	126,937	77,626	70,155	52,340	47,088	174,169	647,390
Calero and Guadalupe Dams Seismic Retrofits	32,015	2,900	1,840	1,970	585	114	13,163	26,249	184,470	261,466
Coyote Pumping Plant ASD Replacement	2,260	2,116	1,999	-	6,341	4,123	646	81	-	15,567
Coyote Warehouse	9,360	284	-	73	66	-	-	-	-	9,783
Dam Seismic Stability Evaluation	22,236	352	353	65	437	456	5,903	436	1,430	31,315
Small Capital Improvements, San Felipe Reach 1-3	n/a	5,724	-	4,517	1,565	153	1,041	112	68,491	81,603
Pacheco Reservoir Expansion Project (A1)	52,366	27,911	128	30,548	45,592	48,627	235,806	304,608	1,774,466	2,519,924
10-Year Pipeline Rehabilitation (FY18-FY27)	55,239	16,995	4,636	16,243	25,134	11,457	12,171	1,756	2,110	141,105
Almaden Valley Pipeline Replacement Project	-	668	-	828	1,253	2,465	1,893	2,396	80,527	90,030
Distribution Systems Implementation Project	-	2,383	383	2,858	2,668	-	-	-	-	7,909
FAHCE Implementation	-	-	-	-	4,739	4,379	14,691	14,690	106,609	145,108
Pacheco/Santa Clara Conduit Right of Way Acquisition	2,827	507	5	1,657	311	-	-	-	-	5,302
SCADA Implementation Project	-	1,365	-	2,384	2,731	-	-	-	-	6,480
Small Capital Improvements, Raw Water Transmission	n/a	82	-	169	17	382	6,722	272	4,248	11,892
Small Capital Improvements, Treated Water Transmission	n/a	-	-	36	39	30	119	52	255	531
Treated Water Isolation Valves	1,271	-	1,245	-	-	2,331	-	2,439	2,642	8,683
Westside Retailer Interties	147	-	75	-	-	-	-	-	-	147
Vasona Pump Station Upgrade	1,905	1,218	-	717	19,159	545	200	-	-	23,744
PWTP Residuals Management	-	683	-	1,593	1,941	1,625	10,096	18,782	9,572	44,292
RWTP Residuals Remediation	46,205	10,278	17,061	5,353	8,791	633	-	-	-	71,260
RWTP Reliability Improvement	220,363	31,506	221	20,620	22,455	24,570	22,700	17,660	-	359,874
RWTP Treated Water Valves Upgrade	8,624	-	5	6	-	-	-	-	-	8,630
Small Capital Improvements, Water Treatment	-	10,285	-	7,503	1,415	5,382	3,170	3,370	23,152	54,277
STWTP Filter Media Replacement Project	203	445	1	2,812	4,912	1,728	-	-	-	10,100
Water Treatment Plant Electrical Improvement Project	203	446	-	879	2,488	5,851	2,049	-	-	11,916
WTP Implementation Project	-	1,394	-	3,276	3,468	-	-	-	-	8,138
Expedited Purified Water Program (EPWP)	25,697	1,412	1,786	1,140	29,151	30,382	176,239	177,647	176,127	617,795
Land Rights - South County Recycled Water PL	-	203	203	345	3,407	3,606	-	-	-	7,561

FY 2020-21 Funds to be reappropriated

CIP Project Funding Schedule for Water Utility Enterprise Fund ($K) continued

PROJECT NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
South County Recycled Water Pipeline	36,557	248	359	15,308	4,902	-	-	-	-	57,015
FAHCE Stevens Creek Fish Passage Enhancement - 90%	765	-	-	-	1,692	2,726	43	-	-	5,226
Project 1 Design & Construction (e.g. Metcalf Ponds)	-	-	-	-	2,184	2,282	2,385	11,680	12,049	30,580
Project 2 Construction (e.g. Ogier Ponds)	-	-	-	-	-	-	-	-	18,877	18,877
WTP-WQL Network Equipment	2,908	-	-	89	1,391	2,803	798	287	3,280	11,556
TOTAL	598,695	155,708	30,646	247,926	276,460	226,805	562,279	629,730	2,693,485	5,391,088

FY 2020-21 Funds to be reappropriated

CIP Project Funding Schedule for Watershed and Stream Stewardship Fund ($K)

PROJECT NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
Palo Alto Flood Basin Tide Gate Structure Improvements	4,392	83	552	3,062	8,683	8,627	8,663	4,784	-	38,294
Permanente Creek, SF Bay to Foothill Expressway	17,541	-	178	-	-	-	-	-	-	17,541
San Francisquito Creek, SF Bay thru Searsville Dam	4,064	-	-	-	-	-	-	-	-	4,064
San Francisquito Creek, Early Implementation	1,614	-	-	-	-	-	-	-	-	1,614
Guadalupe River Tasman Dr - I-880	1,080	1,838	(1)	2,670	2,365	28,293	29,753	29,912	-	95,911
Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd Phs 1	50,191	-	3,339	-	-	-	-	-	-	50,191
Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd Phs 2	62,075	10,715	-	12,288	885	377	274	-	-	86,614
Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd Phs 3	-	-	-	-	-	-	-	2,106	65,055	67,161
Cunningham Flood Detention Certification	11,806	4	3	28	-	-	-	-	-	11,838
Lower Penitencia Ck Improvements, Berryessa to Coyote Cks.	11,287	7,745	7,503	230	8,021	628	322	-	-	28,233
Lower Silver Creek, I-680 to N. Babb Rd (Reach 4 Planning)	2,371	-	-	-	-	-	-	-	-	2,371
Lower Silver Creek, I-680 to Cunningham (Reach 4-6)	97,005	167	24	28	55	-	-	-	-	97,255
Lower Silver Creek, I-680 to Cunningham, Reimbursable (Reach 4-6)	2,912	-	760	-	-	-	-	-	-	2,912
Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps	9,466	-	-	-	-	-	-	-	-	9,466
Upper Penitencia Ck, Coyote Ck-Dorel Dr, LERRDs	4,831	-	2,522	-	-	-	-	-	-	4,831
Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	6,947	-	2,763	-	-	-	3,240	3,462	391	14,040
San Francisco Bay Shoreline	49,353	48,311	-	21,632	1,735	33,483	119	125	-	154,758
San Francisco Bay Shoreline - Contribution	490	-	-	-	-	-	-	-	-	490
Shoreline Early Implementation	359	-	-	-	-	-	-	-	-	359
Watersheds Asset Rehabilitation Program	35,831	3,531	7,809	10,910	2,566	2,646	2,730	2,829	121,531	182,574
SMP Mitigation, Stream and Watershed Land Preservation	16,769	-	1	-	-	-	-	-	-	16,769
FAHCE Stevens Creek Fish Passage Enhancement - 10%	85	-	-	-	188	303	5	-	-	581
Stevens Creek Fish Barrier Removal - 100%	-	-	-	-	568	3,526	3,642	3,637	2,248	13,621
Project 2 Construction (e.g. Ogier Ponds)	-	-	-	-	-	-	-	-	18,876	18,876
Salt Ponds A5-11 Restoration	5,082	171	-	585	1,268	435	-	-	-	7,541
Watershed Habitat Enhancement Studies	3,170	1,034	-	-	-	-	-	-	-	4,204
TOTAL	398,721	73,599	25,453	51,433	26,334	78,318	48,748	46,855	208,101	932,109

FY 2020-21 Funds to be reappropriated

Project Funding Schedule for Safe, Clean Water and Natural Flood Protection Fund ($K)

PROJECT NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
IRP2 Additional Line Valves (A3)	1,489	634	2	313	46	1,632	2,492	2,576	2,852	12,034
Main & Madrone Pipelines Restoration (A1)	17,570	-	2	-	-	-	-	-	-	17,570
Permanente Creek, SF Bay to Foothill Expressway	91,031	7,645	-	-	-	-	-	-	-	98,676
San Francisquito Creek, SF Bay thru Searsville Dam (E5)	6,782	-	-	-	-	-	-	-	-	6,782
San Francisquito Creek - Construction, SF Bay to Middlefield Road (E5)	50,291	370	1	12,720	24,300	6,885	-	-	-	94,566
Sunnyvale East and West Channels (E2)	35,438	2,033	17,302	-	1,003	14,014	11,970	6,772	260	71,490
Guadalupe Rv–Upper, Fish Passage Mods	2,651	-	-	-	-	-	-	-	-	2,651
Guadalupe Rv–Upper, I-280 to SPRR (Rch 6) (E8)	34,705	-	1,095	562	33	34	36	37	2,996	38,403
Guadalupe Rv–Upper, SPRR-Blossom Hill (Rch 7-12) (E8)	89,399	-	22,869	-	-	-	-	-	38,877	128,276
Guadalupe Rv–Upper, Actuals chg to other proj numbers	7,887	-	-	-	-	-	-	-	-	7,887
Berryessa Ck, Calaveras-I-680 - Corps	35,566	29	-	-	-	-	-	-	-	35,595
Berryessa Ck, Calaveras-I-680 - Reimbursable	18,987	3	-	-	-	-	-	-	-	18,990
Coyote Creek, Montague Expressway to Tully Road (E1)	15,036	2,199	2,528	1,598	6,661	11,166	22,382	3,895	-	62,937
Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps (E4)	4,719	3,898	2,516	113	218	2,067	1,599	4,449	8,573	25,636
Llagas Creek–Upper, Reimbursable (E6b)	45,040	-	82	-	-	-	9	-	-	45,049
Llagas Creek–Upper, Corps Coordination (E6a)	50,636	47,476	-	58,292	58,521	32,386	9,242	312	-	256,865
Llagas Creek–Upper, Technical Studies	1,446	-	-	-	-	-	-	-	-	1,446
Llagas Creek–Upper, Design (E6)	28,193	-	4,473	-	-	-	184	1,184	-	29,561
San Francisco Bay Shoreline - EIA 11 Design & Partial Construction (E7)	17,510	5	-	-	-	-	-	-	-	17,515
San Francisco Bay Shoreline - EIAs 1-4	3,757	-	1	1,359	1,839	2,957	1,222	6,480	13,848	31,462
San Francisco Bay Shoreline - EIAs 5-10	-	-	-	1,045	1,092	1,141	3,578	3,739	3,907	14,502
Hale Creek Enhancement Pilot Study (D6.1)	4,853	172	-	3,824	-	-	-	-	-	8,849
Almaden Lake Improvements (D4.1a)	5,707	1,710	545	9,325	20,902	19,681	775	31	67	58,198
South Bay Salt Ponds Restoration (D8)	548	-	243	-	-	-	-	-	-	548
SCW Fish Passage Improvements (D4.3; Evelyn,Singleton)	5,328	-	1	979	211	-	-	-	-	6,518
Bolsa Road Fish Passage Improvement (D6.2)	-	-	-	2,205	4,385	-	-	-	-	6,590
SCW Implementation: Fish Passage Improvements (D4)	-	-	-	-	2,127	1,184	1,000	1,250	1,252	6,813
SCW Implementation: Restoration of Natural Creek Functions (D6.3)	-	-	-			-	-	-	6,658	6,658
Ogier Ponds Separation from Coyote Creek (D4.1b)	1,598	-	512	1,050	1,482	-	-	-	-	4,130
TOTAL	576,167	66,174	52,172	93,385	122,820	93,147	54,489	30,725	87,484	1,124,391

FY 2020-21 Funds to be reappropriated

Financial Planning and Summary

Project Funding Schedule for General Fund ($K)

PROJECT NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
Facility Management, Small Capital Improvements	n/a	3,016	-	4,000	4,000	4,000	4,000	4,000	20,000	43,016
Headquarters Operations Building	20	-	1	2,000	2,173	6,544	2,385	2,492	-	15,614
TOTAL	20	3,016	1	6,000	6,173	10,544	6,385	6,492	20,000	58,630

FY 2020-21 Funds to be reappropriated

Project Funding Schedule for Information Technology Fund ($K)

PROJECT NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
Data Consolidation	1,083	74	(1)	76	-	-	-	-	-	1,233
IT Disaster Recovery	2,396	-	-	206	-	-	-	-	-	2,602
ERP System Implementation	14,608	2,258	1,818	462	248	-	-	-	-	17,576
Software Upgrades & Enhancements	3,184	871	-	345	2,036	1,248	405	504	6,779	15,372
Telephone System Voiceover IP	1,116	132	1	-	-	-	-	-	-	1,248
E-Discovery Management System	267	-	-	-	-	-	-	-	-	267
TOTAL	22,654	3,335	1,818	1,089	2,284	1,248	405	504	6,779	38,298

FY 2020-21 Funds to be reappropriated

CIP Funding Schedule Summary for All Funds ($K)

FUND NAME	Through FY20	FY21	FY21 Unspent	FY22	FY23	FY24	FY25	FY26	FY27-36	TOTAL
Water Utility Enterprise	598,695	155,708	30,646	247,926	276,460	226,805	562,279	629,730	2,693,485	5,391,088
Watershed Stream Stewardship	398,721	73,599	25,453	51,433	26,334	78,318	48,748	46,855	208,101	932,109
Safe, Clean Water and Natural Flood Protection	576,167	66,174	52,172	93,385	122,820	93,147	54,489	30,725	87,484	1,124,391
General	20	3,016	1	6,000	6,173	10,544	6,385	6,492	20,000	58,630
Information Technology	22,654	3,335	1,818	1,089	2,284	1,248	405	504	6,779	38,298
TOTAL	1,596,257	301,832	110,090	399,833	434,071	410,062	672,306	714,306	3,015,849	7,544,516

FY 2020-21 Funds to be reappropriated

Appendices

Appendix A - Valley Water Partnership Summary

Partnership Reimbursements are funds that are reimbursed by Valley Water's partners after Valley Water advances the needed funds. The following table identifies capital projects that are funded cooperatively with Valley Water's partners through reimbursements.

Partnership Reimbursement ($K)

FY 2022-36 Planned Capital Reimbursement Schedule

Project Number	Project Name	Agency	Claims On-hand (09/14/20)	Actuals Thru FY20	FY21	FY22	FY23	FY24	FY25	Future	Total
91214010	**Small Capital Improvements, San Felipe - Rch 1**	**Total**	**0**	**2,481**	**329**	**838**	**496**	**335**	**22**	**14,615**	**19,116**
		San Benito Water Dist		2,481	329	838	496	335	22	14,615	19,116
91954002	**Pacheco Reservoir Expansion Project**	**Total**	**0**	**5,488**	**14,937**	**3,775**	**7,249**	**82,031**	**81,131**	**289,939**	**484,550**
		California Water Commission		5,488	14,937	3,775	7,249	82,031	81,131	289,939	484,550
92144001	**Pacheco/Santa Clara Conduit ROW Acquisition**	**Total**	**0**	**19**	**8**	**0**	**0**	**0**	**0**	**0**	**27**
		San Benito Water Dist		19	8					0	27
92374005	**SCADA Remote Architecture & Comm. Upg**	**Total**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
		San Benito Water Dist		0						0	0
91094007s	**South County Recycled Water Pipeline**	**Total**	**0**	**2,106**	**2,000**	**2,000**	**0**	**0**	**0**	**0**	**6,106**
		SCRWA		811						0	811
		USBR - ARRA		1,295						0	1,295
		USBR - Title 16		0	2,000	2,000				0	4,000
26154001s	**Guadalupe River–Upper, I-280 - Blossom Hill Rd.**	**Total**	**1,682**	**32,349**	**1,419**	**0**	**0**	**0**	**0**	**0**	**33,768**
		State Subventions	931	28,689	1,419					0	30,108
		City of San Jose	751	4,591						0	4,591
26174041s	**Berryessa Ck, Calaveras Bvd to I-680**	**Total**	**0**	**10,000**	**3,558**	**826**	**0**	**0**	**0**	**0**	**14,384**
		State Subventions		0	3,558	826				0	4,384
		DWR - Prop 1E		10,000						0	10,000
40174004	**Berryessa Ck, Lwr Penitencia Ck - Calaveras Blvd.**	**Total**	**0**	**12,464**	**2,536**	**0**	**0**	**0**	**0**	**0**	**15,000**
		DWR - Prop 1E		12,464	2,536					0	15,000
40264011	**Cunningham Flood Detention Certification**	**Total**	**0**	**3,718**	**0**	**0**	**0**	**0**	**0**	**0**	**3,718**
		DWR - Prop 1E		1,000						0	1,000
		NRCS		2,718	0					0	2,718
40334005	**Lwr Penitencia Ck Imp, Berryessa to Coyote Cks.**	**Total**	**0**	**5,000**	**0**	**0**	**0**	**0**	**0**	**0**	**5,000**
		DWR - Prop 1E	0	5,000						0	5,000
40264008s	**Lwr Silver Ck, I-680 to Cunningham, Rchs 4-6**	**Total**	**0**	**50,555**	**3,231**	**0**	**0**	**0**	**0**	**0**	**53,786**
		State Subventions		8,009	731					0	8,740
		DWR - Prop 1E		21,500	2,500					0	24,000
		NRCS-ARRA		20,676						0	20,676
		City of San Jose		370						0	370
50284010	**Llagas Ck–Lwr, Capacity Restoration**	**Total**	**0**	**120**	**1,000**	**0**	**0**	**0**	**0**	**0**	**1,120**
		State Subventions		120	1,000					0	1,120
26174051s	**Llagas Creek–Upr, Buena Vista to Wright**	**Total**	**5,662**	**26,242**	**9,180**	**6,734**	**579**	**0**	**0**	**0**	**42,735**
		State Subventions	5,662	22,901	9,180	6,734	579			0	39,394
		City of Morgan Hill		3,341						0	3,341
26244001	**Permanente Creek, SF Bay to Foothill Expway**	**Total**		**1,023**	**0**	**0**	**0**	**0**	**0**	**0**	**1,023**
		Cities of Mountain View and Los Altos		1,023						0	1,023
10284007s	**San Francisquito Creek, SF Bay - Searsville Dam**	**Total**	**0**	**5,508**	**50**	**0**	**0**	**0**	**0**	**0**	**5,558**
		JPA Member Agencies		4,520						0	4,520
		JPA (Joint Powers Authority)	**0**	988	50					0	1,038
26444001	**San Francisco Bay Shoreline**	**Total**		**11,372**	**320**	**0**	**0**	**0**	**0**	**0**	**11,692**
		SFBRA Measure AA (Grant)		11,372	320						11,692
00044026	**San Francisco Bay Shoreline**	**Total**		**5,226**	**11,477**	**20,886**	**20,886**	**20,886**	**9,686**	**19,374**	**108,421**
		SFBRA Measure AA (Grant)		4,672	11,200	11,200	11,200	11,200		0	49,472
		SFBRA Measure AA (Ballot Reimbursement)		554	277					0	831
		State Subventions		0		9,686	9,686	9,686	9,686	19,374	58,118
26444002	**San Francisco Bay Shoreline**	**Total**		**420**	**0**	**0**	**0**	**0**	**0**	**0**	**420**
		State Bond - DWR		420							420
62084001	**Watersheds Asset Rehabilitation Program**	**Total**		**442**	**0**	**0**	**0**	**0**	**0**	**0**	**442**
		City of Palo Alto		442						0	442
	SUBTOTAL - Reimbursements from Current Projects		**7,344**	**174,533**	**50,045**	**35,059**	**29,210**	**103,252**	**90,839**	**323,928**	**806,866**

Partnership Reimbursement ($K) (cont'd)

Pending Reimbursements for Closed Projects			Claims	Actuals							
Project Number	Project Name	Agency	On-hand (09/14/20)	Thru FY20	FY21	FY22	FY23	FY24	FY25	Future	Total
91214001	Pacheco Conduit Inspection & Rehabilitation	Total	12	1,488	0	0	0	0	0	0	1,488
		San Benito Water Dist	12	1,488						0	1,488
91244001	Wolfe Road Recycled Water Pipeline	Total	0	12,201	0	0	0	0	0	0	12,201
		Apple Computer		4,800						0	4,800
		Cal Water		1,500						0	1,500
		City of Sunnyvale		2,101						0	2,101
		DWR - Prop 84		3,800						0	3,800
94384002	Penitencia Delivery Main Seismic Retrofit	Total	0	5,107	0	0	0	0	0	0	5,107
		Department of Water Resources (A3904)		5,107						0	5,107
92224001	Penitencia Force Main Seismic Retrofit	Total	0	3,884	0	0	0	0	0	0	3,884
		Department of Water Resources (A3904)		3,884						0	3,884
91184008	Silicon Valley Advanced Water Purification Ctr	Total	0	22,046	0	0	0	0	0	0	22,046
		City of San Jose		8,500						0	8,500
		DWR - Prop 50		2,935						0	2,935
		DWR - Prop 84		2,486						0	2,486
		USBR - ARRA		8,125						0	8,125
30154013s	Guadalupe River–DT, I-880 to I-280	Total	0	39,480	500	0	0	0	0	0	39,980
		State Subventions		27,618	500					0	28,118
		City of San Jose		1,654						0	1,654
		San Jose Redev Agency		10,208						0	10,208
		SUBTOTAL - Reimbursements for Closed Projects	0	84,206	500	0	0	0	0	0	84,706
		TOTAL REIMBURSEMENTS	7,344	258,739	50,545	35,059	29,210	103,252	90,839	323,928	891,572

Appendix A - Valley Water Partnership Summary

Partnership Funding is funds that are made available by Valley Water's partners, when needed. The following table identifies capital projects that receive partnership funding. This may occur through either cost sharing agreements or as in-kind services.

Partnership Funding

Project Number	Project Name	Amount ($K)	Partnering Agency
26174041s	Berryessa Creek, Calaveras Boulevard to Interstate 680	13,600	U.S. Army Corps of Engineers
26154001s	Guadalupe River–Upper, Interstate 280 to Blossom Hill Road	188,000	U.S. Army Corps of Engineers
26174051s	Llagas Creek–Upper, Buena Vista Road to Wright Avenue	65,000	U.S. Army Corps of Engineers
00044026s	San Francisco Bay Shoreline	91,250	USACE, Coastal Conservancy, US Fish & Wildlife, CA Wildlife Conservation, Packard-Hewlett-Goldman-Moore Foundations
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	3,000	U.S. Army Corps of Engineers
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	11,040	San Francisquito Joint Powers Authority (DWR)
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	1,500	County of San Mateo
40324003s	Upper Penitencia Creek, Coyote Creek to Dorel Drive	102,720	U.S. Army Corps of Engineers
	TOTAL	$ 476,110	

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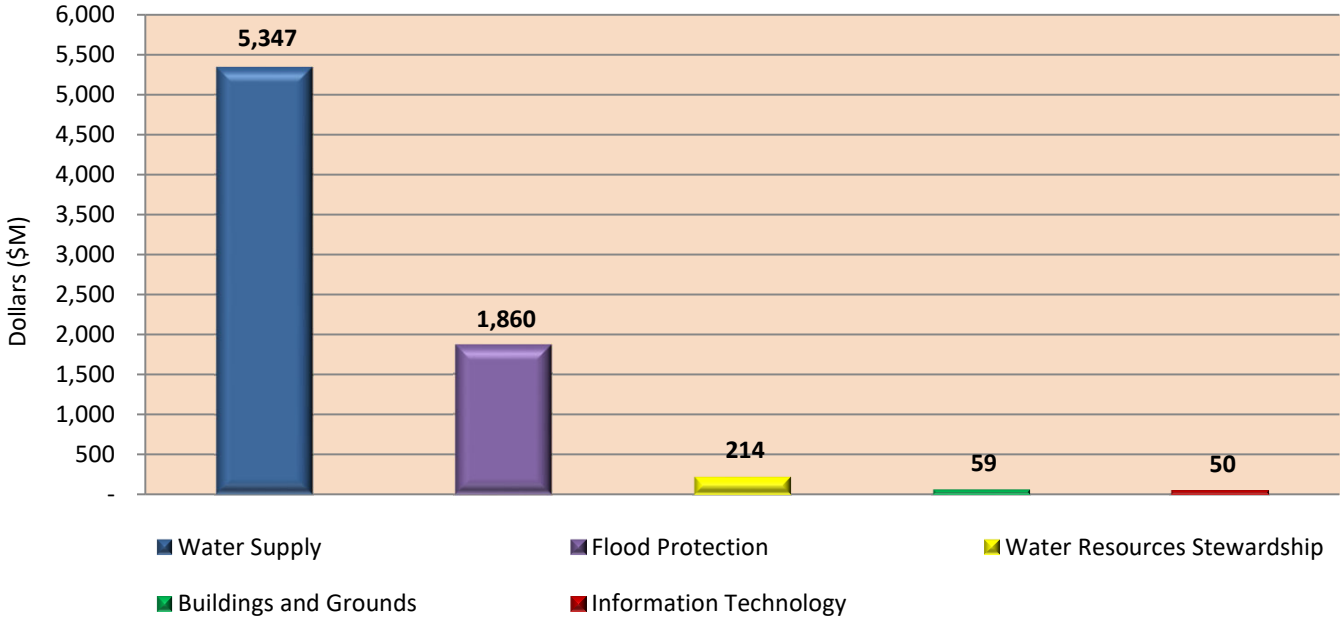
Appendix B - Summary of Capital Expenditures

Expenditure Schedule by Type of Improvement ($K)

	THRU FY20 (Actuals)	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32-36	TOTAL
Water Supply	576,536	163,240	270,129	272,015	220,933	561,599	620,376	562,345	468,892	350,329	406,433	399,725	474,878	5,347,430
Flood Protection	779,259	193,164	153,925	135,469	147,351	96,827	80,720	55,253	62,752	35,112	32,180	19,433	68,859	1,860,304
Water Resources Stewardship	36,018	9,672	19,026	35,007	30,137	7,850	16,598	18,838	6,158	2,844	4,458	13,648	14,081	214,335
Buildings and Grounds	19	3,016	6,000	6,173	10,544	6,385	6,492	4,000	4,000	4,000	4,000	4,000	-	58,629
Information Technology	15,286	12,072	2,996	3,675	4,051	1,203	791	601	5,099	533	1,136	1,188	1,502	50,133
TOTAL	1,407,118	381,164	452,076	452,339	413,016	673,864	724,977	641,037	546,901	392,818	448,207	437,994	559,320	7,530,831

CIP Expenditures by Type of Improvement

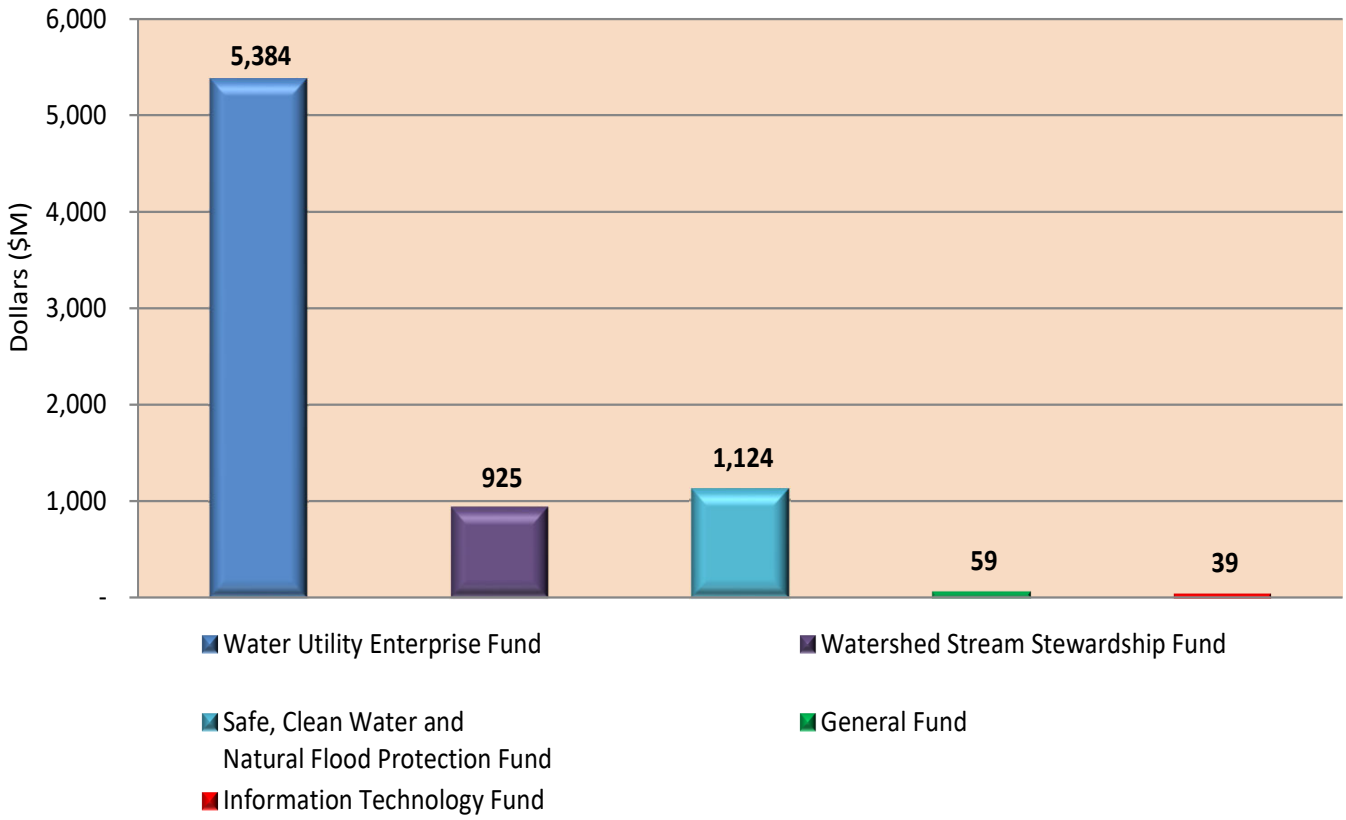


Appendix B - Summary of Capital Expenditures

Expenditure Schedule by Fund ($K)

	THRU FY20 (Actuals)	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32-36	TOTAL
Water Utility Enterprise Fund	560,458	163,300	269,903	277,236	227,112	562,333	629,767	574,496	468,938	352,184	409,289	406,669	482,380	5,384,065
Watershed Stream Stewardship Fund	338,717	108,151	67,558	27,699	79,402	48,931	46,855	14,648	33,366	32,511	33,614	26,257	67,705	925,414
Safe, Clean Water and Natural Flood Protection Fund	494,089	96,082	105,708	138,947	94,710	55,810	41,359	47,427	36,902	4,123	795	-	8,194	1,124,146
General Fund	19	3,016	6,000	6,173	10,544	6,385	6,492	4,000	4,000	4,000	4,000	4,000	-	58,629
Information Technology	13,835	10,615	2,907	2,284	1,248	405	504	466	3,695	-	509	1,068	1,041	38,577
TOTAL	1,407,118	381,164	452,076	452,339	413,016	673,864	724,977	641,037	546,901	392,818	448,207	437,994	559,320	7,530,831

CIP Expenditures by Fund



Appendix C - Safe Clean Water Project Schedules

The following tabel is an overview schedule for Safe, Clean Water Capital Projects identified in the FY 2022-26 CIP. Detailed information for each project can be found in this document in their respective chapters in the order presented in this table.

Safe, Clean Water Capital Improvement Project Schedules

Project Number	PROJECT NAME	FY05 - FY09	FY10 - FY14	FY15 - FY19	FY20 - FY24	FY25 - FY29	FY30 - FY34
	WATER SUPPLY						
91864005	Anderson Dam Seismic Retrofit (C1)						
26764001	IRP2 Additional Line Valves (A3)						
	FLOOD PROTECTION						
26244001	Permanente Creek, SF Bay to Foothill Expressway						
26284001	San Francisquito Creek, SF Bay thru Searsville Dam (E5)						
26284002	San Francisquito Creek - Construction, SF Bay to Middlefield Road (E5)						
26074002	Sunnyvale East and West Channels (E2)						
26154001	Guadalupe Rv–Upper, Fish Passage Mods						
26154002	Guadalupe Rv–Upper, I-280 to SPRR (Reach 6) (E8)						
26154003	Guadalupe Rv–Upper, SPRR-Blossom Hill (Reaches 7-12) (E8)						
26174043	Coyote Creek, Montague Expressway to Tully Road (E1)						
26324001	Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps (E4)						
26174051	Llagas Creek–Upper, Reimbursable (E6b)						
26174052	Llagas Creek–Upper, Corps Coordination (E6a)						
26174054	Llagas Creek–Upper, Design (E6)						
00044026	San Francisco Bay Shoreline						
26444001	San Francisco Bay Shoreline - EIA 11 Design & Partial Construction (E7)						
26444002	San Francisco Bay Shoreline - EIAs 1-4						
26444004	San Francisco Bay Shoreline - EIAs 5-10						
	WATER RESOURCES STEWARDSHIP						
26044001	Almaden Lake Improvements (D4.1a)						
26164001	Hale Creek Enhancement Pilot Study (D6)						
26044002	Bolsa Road Fish Passage Improvements (D6.2)						
26044003	SCW Ogier Ponds Separation (D4.1b)						

*Safe, Clean, Water (SCW) and Capital Improvement Program (CIP) schedules may vary slightly due to the definition of project completion by each program.

Legend

- Planning Phase
- Design Phase
- Construction Phase
- Close-out Phase

Appendix C - Safe Clean Water Project Schedules

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Appendix D - Glossary

Ad Valorem Tax
A tax based on value (e.g., a property tax).

Appropriation
An appropriation is a legal authorization granted by the Santa Clara County Board of Supervisors which allows Valley Water to expend cash and incur obligations for specific purposes. An appropriation is usually limited in amount and the time it may be expended.

Assessment
The process of setting the official valuation of property for taxation; the valuation placed upon property as a result of this process.

Asset
A probable future economic benefit obtained or controlled by a particular entity as a result of past transactions or events. Examples of assets are cash, receivables, and equipment.

BAO Board Appointed Officer

Benefit Assessment
Determination of the benefits derived from Valley Water activities within particular watersheds and levying a proportionate share of taxes to each parcel subject to voter-approved limitations.

Bonds
Bonds are a long-term source of debt that provides a source of borrowed monies that can be used to pay for specific capital facilities. Bonds are a written promise to pay a specified sum of money at a predetermined date or dates in the future, called the maturity date(s), together with periodic interest at a specific rate.

Capital Expenditure
Capital expenditures fall into several categories. In general, they should create assets or extend the useful lives of existing assets. The work product results in a long-term benefit greater than two years and for budgeting purposes involved a major expenditure of Valley Water resources greater than $50,000. They can be made with regard to tangible and intangible assets. The general categories of capital expenditures are: rehabilitation, major repairs, improvements/betterments/upgrades, replacements, expansions/additions, and ancillary expenditures.

Capital Projects
Projects are budgeted within the Capital budget and fall within the definition of Capital Expenditures; which means they (1) create or extend the life of an asset, (2) their work products have a useful life of greater than two years, and (3) they involve an expenditure of Valley Water resources in excess of $50,000.

Certificates of Participation (COPs)
A security in the general form of a bond, which evidences a proportionate participation in a flow of lease or other payments between two parties.

CEQA California Environmental Quality Act

CIP Capital Improvement Program

Clean, Safe Creeks/CSC
In November 2000, Santa Clara County voters approved the special parcel tax, the Clean, Safe Creeks and Natural Flood Protection Plan (Clean, Safe Creeks) to address community needs for enhanced stream stewardship and flood protection. The 15-year Clean, Safe Creeks Plan was replaced in its entirety by the Safe, Clean Water and Natural Flood Protection Program, which voters approved in 2012 (2012 Safe, Clean Water).

Cost Center
Cost Centers are separate financial accounting centers in which costs are accumulated because of legal and accounting requirements, the first two digits of a project number identifies the cost center.

COVID-19 Disease caused by novel coronavirus, which caused a pandemic in 2020.

DPR Direct Potable Reuse

DSOD California Division of Safety of Dams

Appendix D - Glossary

DWR State Department of Water Resources

EIR Environmental Impact Report

Encumbrances
Commitments related to unperformed (executory) contracts for goods or services. Encumbrances represent the estimated amount of expenditures that will result if unperformed contracts in process are completed.

Enterprise Fund
Enterprise Funds are used to account for operations including debt service (a) that are financed and operated in a manner similar to private business, where the intent of the government body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a accounting basis is financed or recovered primarily though user charges; or (b) where the governing body has determined that periodic determination of revenues earned, expenses incurred, and/or net income is appropriate for capital maintenance, public policy, management control accountability, or other purposes.

ERP Enterprise Resource Planning

Expenditure/Expense
Decreases in net financial resources. Expenditures include current operating expenses requiring the present or future of net current assets, debt service and capital outlays, and intergovernmental grants, entitlements, and shared revenues. The major expenditure categories used by Valley Water are labor and overhead, land and structures, equipment, and debt service.

Facility
Defined as a creek, reservoir, dam, water treatment plant, pipeline, canal, etc.

FERC Federal Energy Regulatory Commission

Fixed Assets
Fixed Assets are defined as long-lived tangible assets such as automobiles, computers and software, furniture, communications equipment, hydrologic equipment, office equipment, and other equipment, with a value of $2,000 or more, or the combined value of like or related units (aggregate value) is greater than $5,000 if the unit value is less than $2,000.

Fiscal Year
A 12-month period to which the annual operating budget applies and at the end of which a government determines its financial position and the results of its operations. Valley Water's fiscal year is July 1 through June 30.

FOCP Federal Energy Regulatory Commission Order Compliance Project

Fund
A fiscal and accounting entity with a self-balancing set of accounts in which cash and other financial resources, all related liabilities and residual equities, or balances, and changes therein, are recorded and segregated to carry on specific activities or attain certain objectives in accordance with special regulations, restrictions or limitations.

General Fund
A fund used to account for major operating revenues and expenditures, except for those financial transactions that are required to be accounted for in another fund. General Fund revenues are derived primarily from property and other taxes.

Grants
Contributions or gifts of cash or other assets from another government entity to be used or expended for a specified purpose, activity, or facility.

HVAC Heating, Ventilation, and Air Conditioning

IPR Indirect Potable Reuse

JPA Joint Power Authority

KPI
Each project under the Safe, Clean Water Program has Key Performance Indicators (KPIs) that define the deliverables that are Valley Water's commitment to the

voters. Safe, Clean Water Projects may have multiple KPIs and each KPI may result in separate or multiple projects within the Capital Improvement Program.

Levy
(1. Verb) To impose taxes, special assessments, or service charges for the support of government activities; (2. Noun) The total amount of taxes, special assessments, or service charges imposed by a government agency.

Long-Term Debt
Debt with a maturity date of more than one year after the date of issuance.

Measure S
In November 2020, voters in Santa Clara County overwhelmingly approved Measure S, a renewal of Valley Water's Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water Program) that voters had approved in 2012. Unlike the first two special parcel taxes, which were set to sunset in 15-years from the date of implementation, the renewed Safe, Clean Water Program will continue until repealed by voters or until the Board determines the funding is no longer needed.

MGD Million Gallons per Day

One-Percent Flood or 100-Year Flood
Has a 1% chance of occuring in a given year. Valley Water projects are usually designed for the 1% flood, a national standard established by the Federal Emergency Management Agency (FEMA).

Operating Expenditure
Operating expenditures are system costs required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services.

Operating expenditures are costs necessary to maintain the systems in good operating condition. This includes the repair and replacement of minor property components. The American Waterworks Association (AWWA) says that these priority components should be smaller than a retirement unit; a retirement unit is a readily separable and separately useful item that is part of a larger assembly. The benefit and life of such repairs should be less than two years. Any repairs that recur on an annual basis are considered operating activities of a maintenance nature.

Operating expenditures are often separated into fixed and variable costs for purposes of understanding operating leverage and structuring service charge rates.

Operations
Expenditures required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services. Operations include work that is generally of an ongoing or recurring nature. Any Valley Water work that is not a project is, by definition, an Operation. Operations, although recurring, require close coordination and a high degree of management oversight; however, they can be accomplished without the application of the full range of tools and processes used for managing projects.

P3 Public Private Partnership

Projects
At Valley Water, a project is any undertaking which has (1) a beginning and an ending, and (2) is a one-time occurrence. Projects can require expenditure of capital or operating funds and, at Valley Water, are called Capital or Operating Projects, accordingly. Project usually, but not always, relate to a Valley Water facility or facilities (a creek, a reservoir, a dam, a water treatment plant, a pipeline,, etc.). Projects may include studies, design, construction, maintenance, or implementation of systems such as Records Management or Financial Management System.

Revenue
Monies Valley Water receives in exchange for services or sales provided. Revenue items include water sales, property tax revenues, benefit assessment revenues, interest income, intergovernmental reimbursement, and other.

Appendix D - Glossary

Revenue Bonds
Bonds, whose principal and interest are payable exclusively from earnings of an enterprise fund. In addition to a pledge of revenues, such bonds sometimes contain a mortgage on the enterprise fund's property.

Reserve
An account used to indicate that a portion of a fund's assets are legally restricted for a specific purpose and is, therefore, not available for general appropriation.

SCADA
Supervisory Control and Data Acquisition

SCRWA
South County Regional Wastewater Authority

Safe, Clean Water/SCW
In November 2012, Santa Clara County voters approved the Safe, Clean Water and Natural Flood Protection Program (2012 Safe, Clean Water) to address water supply, flood protection and environmental stewardship priorities. In 2020, voters approved the renewal of the Safe, Clean Water Program, replacing the 2012 Safe, Clean Water Program in entirety and is set to begin in FY 2021-22. Unlike the first two special parcel taxes, which were set to sunset in 15-years from the date of implementation, the renewed Safe, Clean Water Program will continue until repealed by voters or until the Board determines the funding is no longer needed.

SMP Stream Maintenance Program

WTP Water Treatment Plant

WQL Water Quality Lab

Valley Water

Clean Water • Healthy Environment • Flood Protection

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